Advanced GeoEnvironmental, Inc.



05 May 2005 AGE-NC Project No. 99-0645

Mr. Nicholas Bokides MEL BOKIDES PETROLEUM INC. PO Box 7747 Stockton, California 95267

Subject: Quarterly Report - First Quarter 2005

Former MEL BOKIDES PETROLEUM - Linden 8203 East Highway 26, Stockton, California

Dear Mr. Bokides:

At your request, *Advanced* GeoEnvironmental, Inc. has prepared the enclosed quarterly report for 8203 East Highway 26, Stockton, California. The scope of work included operation, maintenance and sampling of a soil-vapor extraction system, quarterly ground water monitoring and preparation of this report. Electronic copies of this report will be forwarded to Ms. Margaret Lagorio of the San Joaquin County Environmental Health Department (EHD) and to Mr. James Barton of the Central Valley Regional Water Quality Control Board (CVRWQCB).

If you have any questions or require further information, please contact our office at (209) 467-1006.

Sincerely,

Advanced GeoEnvironmental, Inc.

William R. Little Senior Project Geologist California Professional Geologist #7473

cc: Ms. Margaret Lagorio, EHD Mr. James Barton, CVRWQCB

05 May 2005 AGE-NC Project No. 99-0645

PREPARED FOR:

Mr. Nicholas Bokides MEL BOKIDES PETROLEUM INC.

PREPARED BY:



Advanced GeoEnvironmental, Inc.

381 Thor Place, Brea, California 92821 • Phone (714) 529-0200 • Fax (714) 529-0203 837 Shaw Road, Stockton, California 95215 • Phone (209) 467-1006 • Fax (209) 467-1118 2318 Fourth Street, Santa Rosa, California 95404 • Phone (707) 570-1418 • Fax (707) 570-1461 395 Del Monte Center, #111, Monterey, California 93940 • Phone (800) 511-9300 • Fax (831) 394-5979

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1.0. INTRODUCTION

At the request of Mr. Nick Bokides of Mel Bokides Petroleum (MBP), *Advanced* GeoEnvironmental, Inc. (AGE) has prepared this quarterly report for the property located at 8203 East Highway 26, Stockton, California (site). The scope of work included operation, maintenance and sampling of a soil-vapor extraction system, quarterly ground water monitoring and preparation of this report. The report was prepared in accordance with guidelines issued by the Central Valley Regional Water Quality Control Board (CVRWQCB) for subsurface investigations of former underground storage tank (UST) systems. The site location and site plan are illustrated on Figures 1 and 2, respectively; site background information is summarized in Appendix A.

Four soil-vapor extraction wells (VW1A, VW1B, VW2 and VW3) have been installed at the site, one well (VW1B) screened in petroleum hydrocarbon-impacted soil and the others screened in clean soil; however, based on individual SVE well feasibility testing, AGE determined that well VW1B should adequately capture soil-vapor to mitigate the adsorbed hydrocarbons at the site, while use of the remaining wells have demonstrated counter-productive results.

2.0 PROCEDURES

All field work procedures and reporting requirements are in accordance with guidelines issued by the Central Valley Region of the Regional Water Quality Control Board (CVRWQCB) for subsurface investigation of underground storage tank (UST) system sites and the San Joaquin County Environmental Health Department (EHD) for sampling of ground water monitoring wells. The operation and monitoring of the soil-vapor extraction system was in accordance with the AGE-prepared *Soil Remediation - System Design*, dated 01 September 2004 and approved by the EHD.

2.1. SOIL-VAPOR EXTRACTION SYSTEM

Well VW1B had been piped directly to the soil-vapor extraction unit (VES) located within a fenced enclosure on the north side of the site (Figure 2) using 2-inch diameter Schedule 40 PVC piping. Inline, the VES consists of a 55-gallon moisture knockout vessel for moisture separation and to prevent water collection within the treatment media, three 300-pound (lb) carbon canisters, then a Fuji, 5-horsepower, regenerative vacuum blower capable of drawing a maximum 110 standard cubic feet per minute (scfm) of vapor, and finally two 1,500-pound carbon vessels to adsorb hydrocarbon vapor from the subsurface (Figure 2). The SVE unit is operated in accordance with San Joaquin Unified Air Pollution Control District (APCD) permit 5984-1.

2.2. SOIL-VAPOR EXTRACTION

The SVE system was observed or maintained weekly and monitored monthly. During each monitoring event, the flow rate of extracted soil-vapor (influent) was measured using a totalizing-flow Blue White roto-meter. Vacuum potential was measured at the 2-inch influent line by the magnehelic vacuum gauge. In addition, the organic vapor concentrations in the influent stream (before entering the blower) and the effluent stream (after exiting the carbon unit) were measured using the OVM. A Magnehelic vacuum gauge was temporarily attached to the inlet of the blower to measure vacuum pressure exerted on the extraction well, and a cumulative flow meter was utilized downstream of the carbon canisters to monitor air flow. Sampling ports were installed upstream of the knockout vessel and downstream of the 1,500-lb carbon vessels to recover influent and effluent SVE air flow samples used to monitor the efficiency of hydrocarbon removal; in addition, the influent and effluent streams were monitored routinely for the presence of organic vapor using an organic vapor meter (OVM) equipped with a photo-ionization detector (PID: Thermo Environmental 580; 10.0 eV; calibrated to isobutylene). Field measurements, recorded at regular intervals between 17 December 2004 and 23 March 2005, are summarized in Table 1.

Influent and effluent soil-vapor samples were collected on 21 January, 16 February and 08 March 2005; an effluent soil-vapor sample was collected on 23 March 2005. The influent vapor samples were collected from within a vacuum chamber directly into Tedlar vapor bags; the effluent samples were collected directly out of the effluent stream. The samples were labeled, placed in a cooler and transported under chain of custody to Cal Tech Environmental Laboratories (CTEL) in Paramount, a State of California Department of Health Services (DHS)-certified analytical laboratories. The soil-vapor samples were analyzed for:

- Total petroleum hydrocarbons quantified as gasoline (TPH-g) in accordance with EPA Method 8015 Modified and
- Benzene, toluene, ethylbenzene and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) in accordance with EPA Method 8020.

2.3. MONITORING WELL EVACUATION AND MONITORING

On 25 January 2005, the water level in each of three monitoring wells was measured relative to the top of the well casing using a Solinst water level meter. After water levels were measured, a dedicated, disposable plastic bailer was used to purge each well. Four and one-half to five gallons (a minimum of three well volumes) of water were removed from the wells. Temperature, pH and conductivity of the purged water were measured at one-and-one-half gallon intervals using an Oakton water analyzer during purging. The values had generally stabilized by the end of the purging

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process (Appendix B). Purged water was stored on-site in 55-gallon, DOT-approved drums.

2.4. COLLECTION AND ANALYSIS OF GROUND WATER SAMPLES

Prior to collection of ground water samples, the depth to ground water was re-measured in each purged well to ensure that a minimum of 80% of the well volume had recharged. Then a water sample was collected from each well using the dedicated disposable plastic bailer. Each water sample was transferred into three chilled 40-ml volatile organic analysis (VOA) vials containing 0.5 ml hydrochloric acid (18%) as a sample preservative and one 1-liter amber bottle. After collection, the samples were labeled and placed in a chilled container for transportation under chain of custody to CTEL, a California DHS-certified analytical laboratory, in Paramount, California. Each sample was analyzed for:

- TPH-g and diesel (TPH-d) by EPA Method 8015M;
- BTEX and the oxygenated fuel additives MTBE, tertiary butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE) and tertiary amyl methyl ether (TAME), ethyl-dibromide (EDB) and 1,2-dichloroethane (1,2-DCA) by EPA Method 8260 Modified.

3.0. FINDINGS

From field data collected at the SVE remediation system between December 2004 and 08 March 2005, AGE determined the average TPH-g concentration and the average air flow rate, and calculated the approximate mass and volume of hydrocarbons removed. Ground water elevation and flow direction were determined from the field data collected on 25 January 2005; hydrocarbonimpact to ground water was inferred from laboratory analysis of the samples.

3.1. SOIL-VAPOR EXTRACTION

During the first quarter 2005, the SVE unit operated at an average air flow rate of 65 scfm, generating an induced vacuum (negative pressure) of approximately 30 inches of water, measured in the piping between the blower and extraction well. The SVE unit operation was continuous over the quarter, until 08 March when the system was disengaged due to carbon breakthrough. The carbon media was replaced on 23 March 2005; when the system was re-started.

21 January: TPH-g was detected from the influent SVE sample at a concentration of 450 micrograms per liter (μ g/l); BTEX compounds were detected at 2.0 μ g/l toluene, 3.8 μ g/l ethylbenzene, 41 μ g/l

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xylene and MTBE was detected at a concentration of 35 μ g/l. TPH-g was not detected in the effluent SVE sample; 1.4 μ g/l toluene and 5 μ g/l xylene were detected in the effluent SVE sample; MTBE was not detected.

16 February: TPH-g was detected from the influent SVE sample at a concentration of 820 μ g/l; BTEX compounds were detected at 11 μ g/l benzene and 23 μ g/l toluene; and MTBE was detected at a concentration of 180 μ g/l. Contaminants of concern (COCs) were not detected in the effluent SVE sample.

08 March: TPH-g was detected from the influent SVE sample at a concentration of 650 μ g/l; BTEX compounds were detected at 36 μ g/l toluene, 2.2 μ g/l ethylbenzene and 12 μ g/l xylene; MTBE was detected at a concentration of 7.6 μ g/l. TPH-g was detected in the effluent SVE sample at a concentration of 110 μ g/l and the BTEX compounds toluene and xylene were detected at concentrations of 7.5 μ g/l and 5.2 μ g/l, respectively; MTBE was not detected.

23 March: COCs were not detected in the effluent SVE sample.

The analytical results are summarized in Table 2. The laboratory reports (CTEL Project Nos. CT214-0412192, 0501132, 0502102, 0503081 and 0503243) quality assurance/quality control (QA/QC) reports and chain of custody forms are included in Appendix C.

Extracted organic vapor concentrations measured with the OVM were one quarter to one half of the values when compared to the analytical results from the soil-vapor samples. The highest concentration of organic vapor measured with the OVM was 247 ppm (February).

3.2. MASS OF RECOVERED HYDROCARBONS

The hydrocarbon mass (TPH-g) removed during the operating period was calculated using the following equation: $M = C \cdot Q \cdot t$

where: M = cumulative mass recovered (kg)

C = soil-vapor concentration (kg/m³)

 $Q = \text{extraction flow rate } (m^3/\text{hr})$

t =operational period, in hours

The estimated mass of hydrocarbons removed was based on laboratory analysis of soil-vapor samples, the flow rate and operational time. The mass of extracted hydrocarbons was calculated for the time period using average hydrocarbon concentrations of influent soil-vapor sample data, average air flow rates and duration of operation. The operational results are summarized in Table 1.

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Approximately 156.135 kg (344.25 pounds), or 55.09 gallons of hydrocarbons were extracted by the SVE system between 17 November 2004 and 17 March 2005. The volume and mass calculations are attached in Appendix D. A total of 1,138.25 pounds, or 182.09 gallons of hydrocarbons have been extracted by the SVE system since 05 October 2004.

3.3. GROUND WATER GRADIENT AND FLOW DIRECTION

Depth to ground water at the site on 25 January 2005 ranged from 91.29 feet to 91.64 feet below the monitoring well casing tops. The ground water elevation in each well was calculated from this data. The ground water elevations ranged between 46.06 feet (MW-3) and 46.14 feet (MW-2) below mean sea level (MSL). Ground water decreased an average of 5.8 feet since the October 2004 monitoring event (Table 3).

At the time of the January 2005 monitoring event, the ground water flow direction was inferred to be southeast at a gradient of approximately 0.001 ft/ft. Figure 3 illustrates the contoured ground water elevations.

3.4. ANALYTICAL RESULTS OF WATER SAMPLES

COCs were not detected in any of the collected ground water samples. Analytical results from the ground water samples are summarized in Tables 4 and 5. The laboratory report (CTEL Project No. CT214-0501144), QA/QC reports and chain of custody form are included in Appendix E. GeoTracker confirmation pages of submitted laboratory electronic deliverable format (EDF) files are included in Appendix F.

4.0. SUMMARY AND CONCLUSIONS

Based on the data collected from the site, AGE concludes:

- Approximately 156.135 kg (344.25 pounds), or 55.09 gallons of hydrocarbons were extracted by the SVE system between 17 November 2004 and 17 March 2005. The volume and mass calculations are attached in Appendix D. A total of 1,138.25 pounds, or 182.09 gallons of hydrocarbons were extracted by the SVE system since 05 October 2004. Soil-vapor extraction samples were adequate for continued remediation.
- The ground water flow direction was inferred to be southeast at a gradient of approximately 0.001 ft/ft during the January sampling and monitoring event.
- COCs were not detected in ground water monitoring well samples

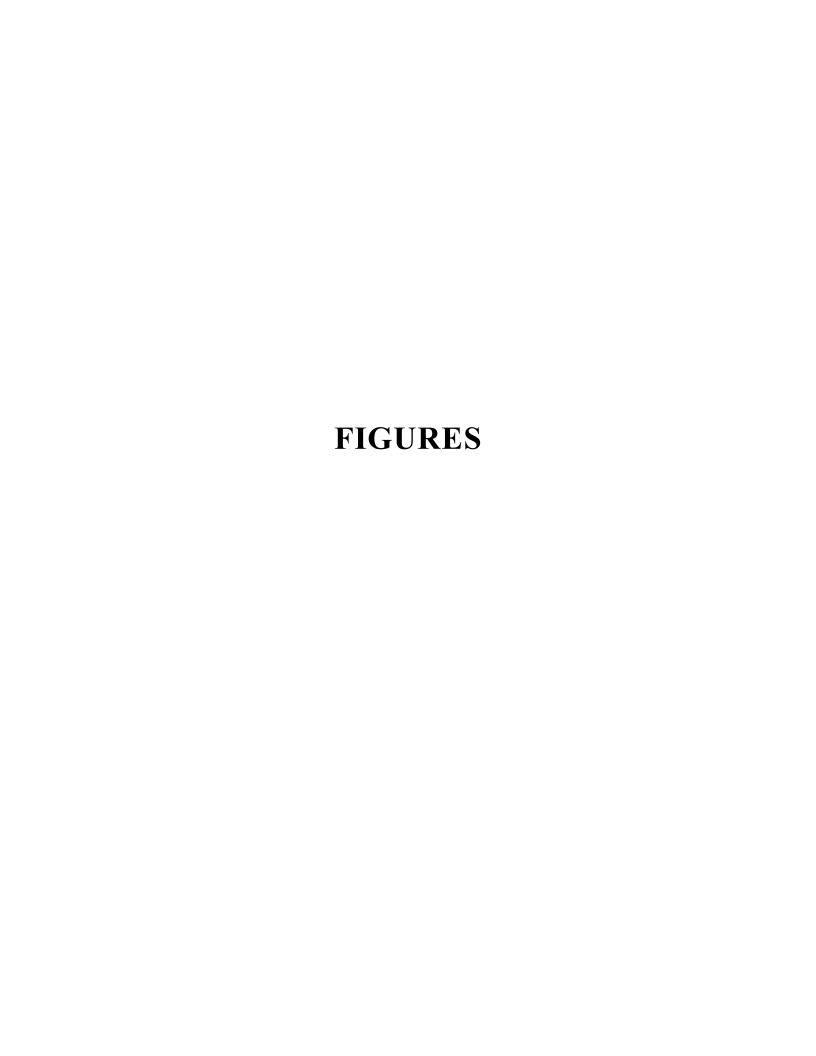
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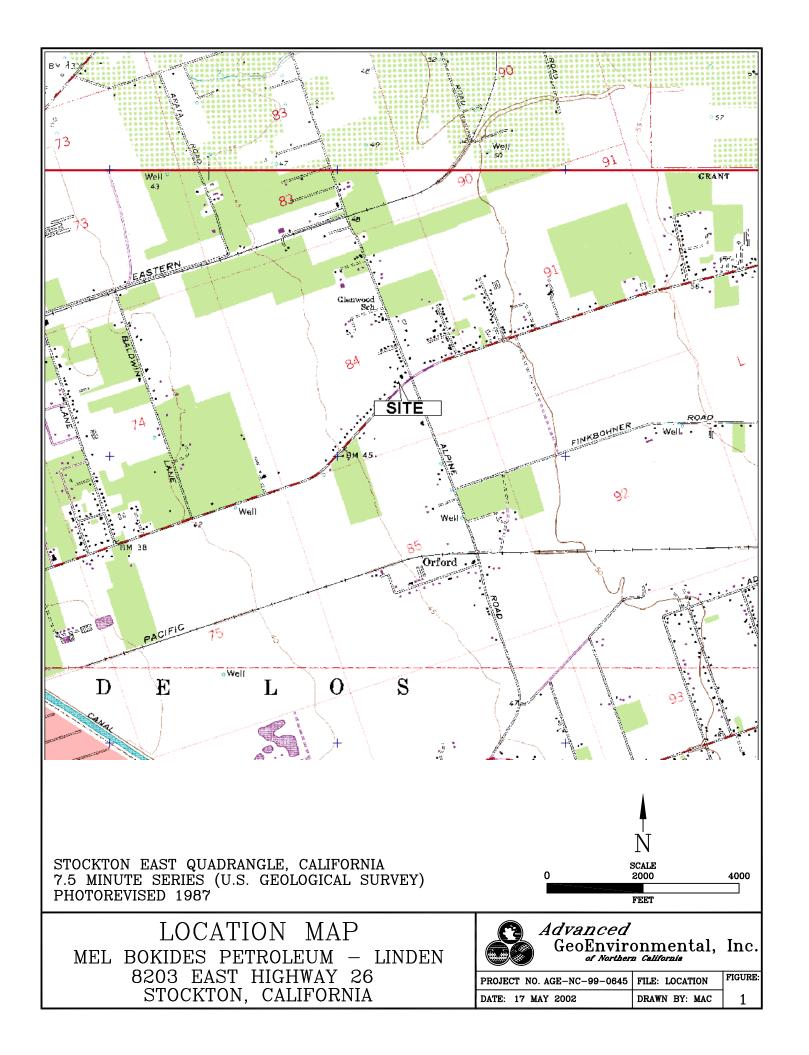
5.0. RECOMMENDATIONS

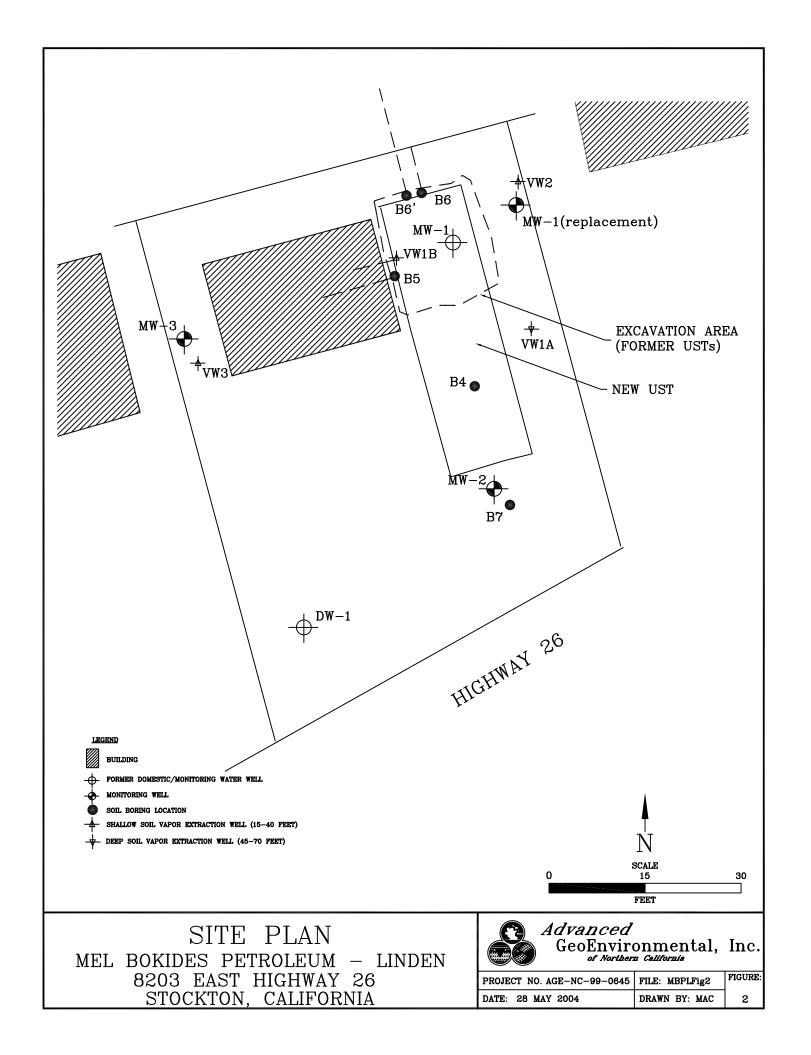
Based on the findings of this investigation, AGE recommends continuation of the soil-vapor extraction and quarterly ground water monitoring program; the next quarterly monitoring event should be scheduled for July 2005.

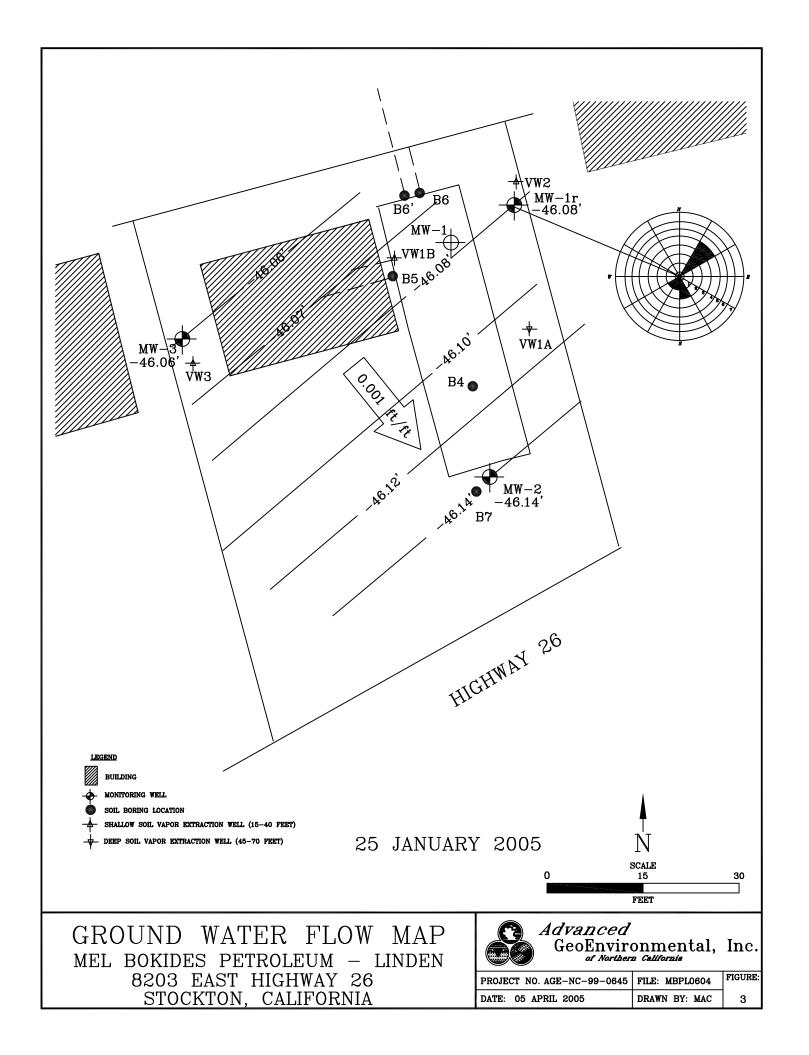
6.0. LIMITATIONS

Our professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar localities. The findings were based upon analytical results provided by an independent laboratory. Evaluation of the hydrogeologic conditions at the site for the purpose of this investigation was made from a limited number of available data points (e.g., soil-vapor, ground water samples) and subsurface conditions may vary away from these data points. No other warranty, expressed or implied, is made as to the professional interpretations, opinions and recommendations contained in this report.









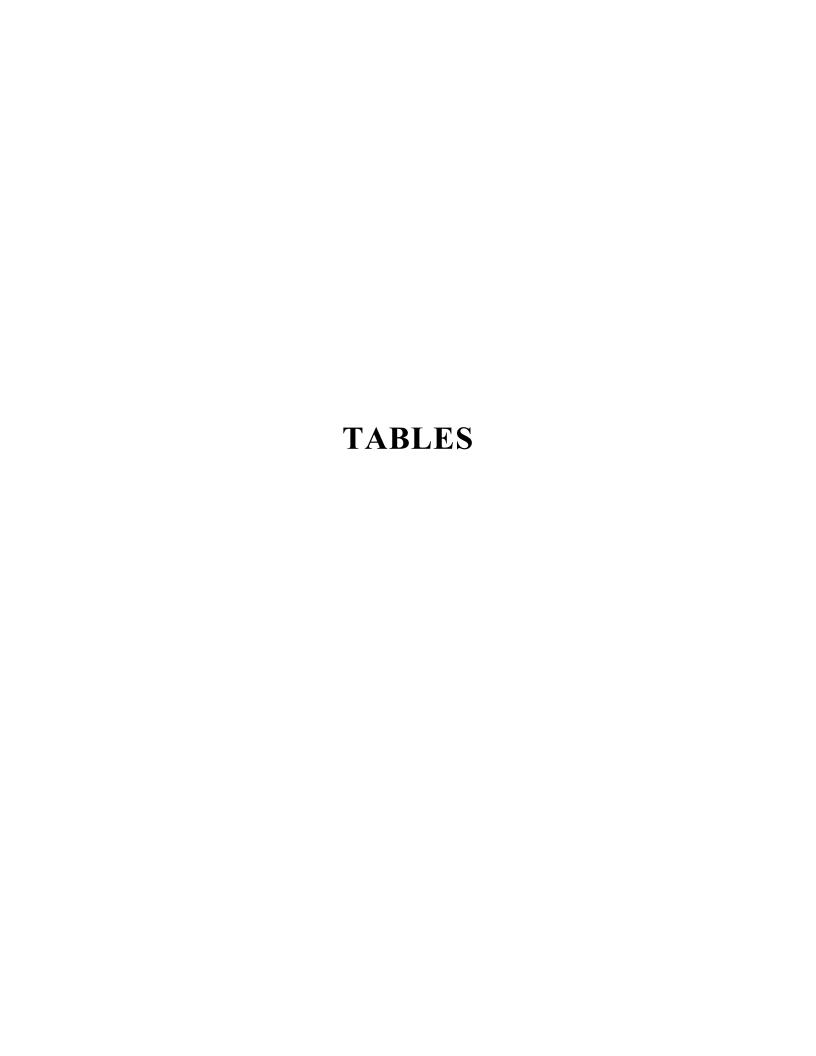


TABLE 1

SOIL VAPOR EXTRACTION DATA Former MEL BOKIDES PETROLEUM - Linden 8203 East Highway 26, Stockton, California

Date	Time	Hours	Flow (cfm)	Vacuum (inches of water)	Inlet (ppmv)	Outlet (ppmv)
10-05-04	1:30 pm	0	55	25	2020	0
10-13-04	12:30 pm	144	55	21	847	15
10-21-04	7:30 am	332	65	23	538	3.8
11-03-04	3:00 pm	647	50	18	-	13
11-17-04	1:00 pm	983	54	18	274	3
12-22-04	11:30 am	1823	70	26	838	4.1
01-21-05	12:00 pm	2543	65	32	135	11
02-16-05	3:30 pm	3167	65	29	247	88
03-08-05	7:30 am	3647	64	30	224	27
03-17-05	2:30 pm off	3863	63	23	66	74
03-23-05	3:00 pm on	3863	45	30	-	-

Notes:

cfm: cubic feet per minute ppmv: parts per million vapor

TABLE 2

ANALYTICAL RESULTS OF SOIL-VAPOR SAMPLES Former MEL BOKIDES PETROLEUM - Linden 8203 East Highway 26, Stockton, California

Sample I.D.	TPH as Gasoline	MTBE	Benzene	Toluene	Ethyl- benzene	Xylenes
Influent Pre-Carbon adsorption 10-05-04	12,000	160	15	450	40	300
Effluent Post-Carbon adsorption 10-05-04	<50	<0.5	<0.5	<0.5	<0.5	<1.0
Influent Pre-Carbon adsorption 10-13-04	3,900	130	11	260	27	180
Effluent Post-Carbon adsorption 10-13-04	<50	<0.5	<0.5	<0.5	<0.5	<1.0
Influent Pre-Carbon adsorption 10-21-04	1,300	340	8.0	87	28	220
Effluent Post-Carbon adsorption 10-21-04	110	<0.5	<0.5	2.9	5.0	40
Influent Pre-Carbon adsorption 11-03-04	2,000	77	<1.0	26	32	300
Effluent Post-Carbon adsorption 11-03-04	<25	22	<0.25	<0.25	<0.25	<0.25
Influent Pre-Carbon adsorption 11-17-04	500	76	<0.5	7.3	9.7	92
Effluent Post-Carbon adsorption 11-17-04	<50	<0.5	<0.5	<0.5	<0.5	<1.0
Influent Pre-Carbon adsorption 12-22-04	650	12	<0.5	1.7	2.6	25
Effluent Post-Carbon adsorption 12-22-04	120	<0.5	<0.5	<0.5	<0.5	4.0

TABLE 2

ANALYTICAL RESULTS OF SOIL-VAPOR SAMPLES Former MEL BOKIDES PETROLEUM - Linden 8203 East Highway 26, Stockton, California

Sample I.D.	TPH as Gasoline	MTBE	Benzene	Toluene	Ethyl- benzene	Xylenes
Influent Pre-Carbon adsorption 01-21-05	450	35	<0.5	2.0	3.8	41
Effluent Post-Carbon adsorption 01-21-05	<50	<0.5	<0.5	1.4	<0.5	5.0
Influent Pre-Carbon adsorption 02-16-05	820	180	11	23	<1.0	<1.0
Effluent Post-Carbon adsorption 02-16-05	<50	<0.5	<0.5	<0.5	<0.5	<1.0
Influent Pre-Carbon adsorption 03-08-05	650	7.6	<0.5	36	2.2	12
Effluent Post-Carbon adsorption 03-08-05	110	<0.5	<0.5	7.5	<0.5	5.2
Effluent Post-Carbon adsorption 03-23-05	<50	<0.5	<0.5	<0.5	<0.5	<1.0

Notes: TPH: Total petroleum hydrocarbons MTBE: Methyl-tertiary-Butyl Ether

TABLE 3
GROUND WATER ELEVATION DATA
Former MEL BOKIDES PETROLEUM - Linden
8203 East Highway 26, Stockton, California
(feet)

Well No. (well screen)	Casing Elevation	Sample Date	Depth to Ground Water	Ground Water Elevation
MW-1 (80' to 100') Destroyed	45.28	11/02/01 04/12/02 07/12/02	90.88 81.62 91.03	-45.60 -36.34 -45.75
MW-1r (80' to 100')	45.56	10/06/03 03/11/04 06/30/04 10/20/04 01/25/05	95.34 86.09 94.00 97.67 91.64	-49.78 -40.53 -48.44 -52.11 -46.08
MW-2 (80' to 100')	45.29 45.30	11/02/01 04/12/02 07/12/02 04/01/03 10/06/03 03/11/04 06/30/04 10/20/04 01/25/05	90.86 81.61 91.03 84.93 95.19 85.84 93.84 97.45 91.44	-45.57 -36.32 -45.72 -39.64 -49.90 -40.55 -48.54 -52.15
MW-3 (80' to 100')	45.23 45.23	11/02/01 04/12/02 07/12/02 04/01/03 10/06/03 03/11/04 06/30/04 10/20/04 10/29/04 01/25/05	90.74 81.49 90.90 86.72 95.09 85.78 93.80 97.37 96.77 91.29	-45.51 -36.26 -45.67 -41.49 -49.86 -40.55 -48.57 -52.14 -51.54 -46.06
Domestic Well Destroyed	45.73	11/02/01	91.00	-45.27

TABLE 4 ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA METHODS 8015M/8020 Former MEL BOKIDES PETROLEUM - Linden 8203 East Highway 26, Stockton, California $$(\mu g/l)$$

Well	G 1	Depth to	8015	5M		Volatile a	romatic compou	nds (8020)	
I. D. (Screen)	Sample Date	GW (feet)	TPH-d	ТРН-д	MTBE	Benzene	Toluene	Ethyl- benzene	Xylenes
MW-1 (80' to 100')	11/02/01 04/12/02 07/12/02 Destroyed	90.88 81.62 91.03	<50 <50 55	<50 120 <50	5.9 <1.0 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <1.0 <0.5
MW-1r (80' to 100')	10/06/03 03/11/04 06/30/04 10/20/04 01/25/05	95.34 86.09 94.00 97.67 91.64	<50 <50 <50 <50 <50	<50 <50 <50 <50 <50	- - - -	<0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.6 <0.6 <0.6 <0.6
MW-2 (80' to 100')	11/02/01 04/12/02 07/12/02 04/01/03 10/06/03 03/11/04 06/30/04 10/20/04 01/25/05	90.86 81.61 91.03 84.93 95.19 85.84 93.84 97.45 91.44	<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<50 130 <50 <50 <50 <50 <50 <50 <50 <50 <50 <5	<5.0 <1.0 <0.5 <1.0 - - -	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <1.0 <0.5 <1.0 <0.5 <1.0 <0.6 <0.6 <0.6 <0.6

TABLE 4

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA METHODS 8015M/8020 Former MEL BOKIDES PETROLEUM - Linden 8203 East Highway 26, Stockton, California

 $(\mu g/l)$

Well	G 1	Sample Depth to		5M	Volatile aromatic compounds (8020)						
I. D. (Screen)	I. D. Date	GW (feet)	TPH-d	TPH-g	MTBE	Benzene	Toluene	Ethyl- benzene	Xylenes		
	11/02/01	90.74	<50	<50	< 5.0	<0.5	<0.5	<0.5	< 0.5		
	04/12/02	81.49	< 50	< 50	<1.0	< 0.5	< 0.5	< 0.5	<1.0		
	07/12/02	91.03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
	04/01/03	86.72	< 50	< 50	<1.0	< 0.5	< 0.5	< 0.5	<1.0		
MW-3	10/06/03	95.09	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.5		
(80' to 100')	03/11/04	85.78	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.6		
	06/30/04	93.80	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.6		
	10/20/04	97.37	< 50	600	-	5.3	17	9. 7	67		
	10/29/04	96.77	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.6		
	01/25/05	91.29	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.6		

Notes:

μg/l: micrograms per liter

TPH-g/-d: Total petroleum hydrocarbons as gasoline/diesel

MTBE: Methyl-tertiary-Butyl Ether

TABLE 5 ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA METHOD 8260B Former MEL BOKIDES PETROLEUM - Linden 8203 East Highway 26, Stockton, California $$(\mu g/l)$$

Sample ID	DIPE	ETBE	MTBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
MW1/11-02-01	<1.0	<1.0	4.7	<1.0	< 5.0	< 500	< 50	<1.0	<1.0
MW1/04-12-02	<1.0	<1.0	<1.0	<1.0	<25			< 0.5	< 0.5
MW1/07-12-02	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 500	< 50	< 0.5	< 0.5
Destroyed	-	-	-	-	-	-	-	-	-
MW1r/10-06-03	< 5.0	< 5.0	120	< 5.0	< 50	-	-	< 5.0	< 5.0
MW1r/03-11-04	<1.0	<1.0	<1.0	<1.0	<10	-	-	< 0.5	< 0.5
MW1r/06-30-04	<1.0	<1.0	<1.0	<1.0	<10	-	-	< 0.5	< 0.5
MW1r/10-20-04	<1.0	<1.0	<1.0	<1.0	<10	-	-	< 0.5	< 0.5
MW1r/01-25-05	<1.0	<1.0	<1.0	<1.0	<10	-	-	< 0.5	< 0.5
MW2/11-02-01	<1.0	<1.0	<1.0	<1.0	< 5.0	< 500	< 50	<1.0	<1.0
MW2/04-12-02	<1.0	<1.0	<1.0	<1.0	<25			< 0.5	< 0.5
MW2/07-12-02	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 500	< 50	< 0.5	< 0.5
MW2/04-01-03	<1.0	<1.0	<1.0	<1.0	<10	<1,000	< 50	< 0.5	< 0.5
MW2/10-06-03	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	-	-	< 0.5	< 0.5
MW2/03-11-04	<1.0	<1.0	<1.0	<1.0	<10	-	-	< 0.5	< 0.5
MW2/06-30-04	<1.0	<1.0	<1.0	<1.0	<10	-	-	< 0.5	< 0.5
MW2/10-20-04	<1.0	<1.0	<1.0	<1.0	<10	-	-	< 0.5	< 0.5
MW2/01-25-05	<1.0	<1.0	<1.0	<1.0	<10	-	-	< 0.5	< 0.5

TABLE 5

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA METHOD 8260B Former MEL BOKIDES PETROLEUM - Linden 8203 East Highway 26, Stockton, California

 $(\mu g/l)$

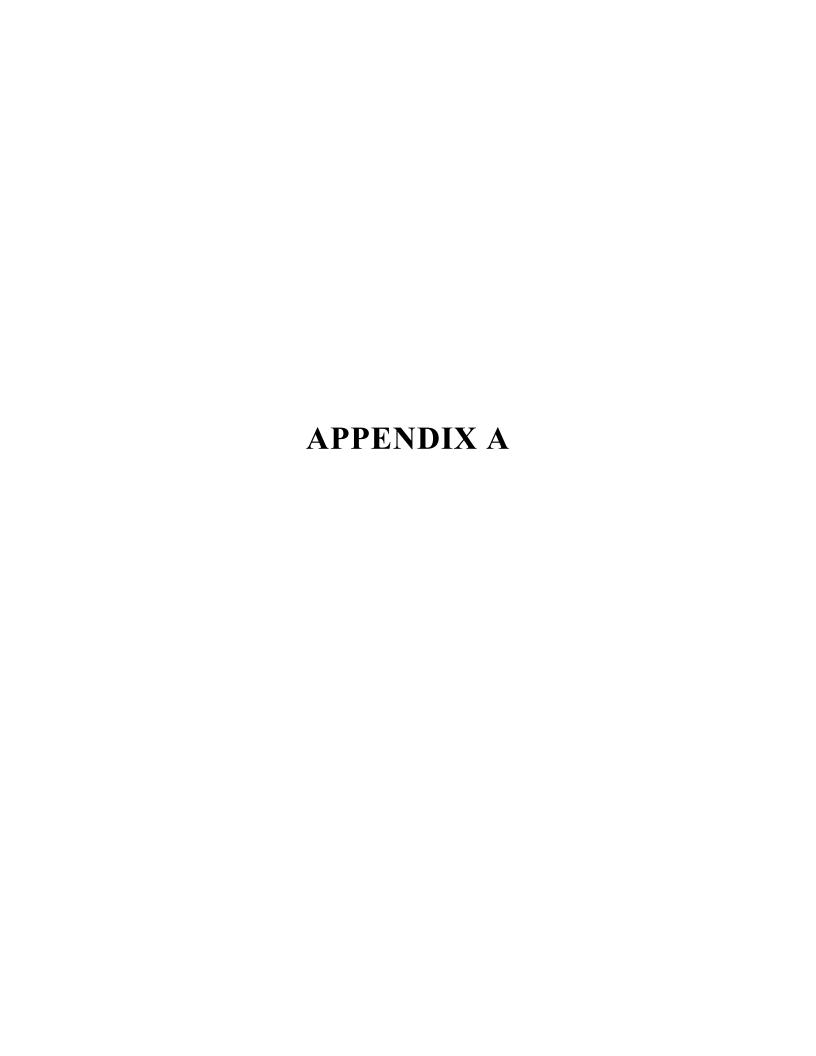
Sample ID	DIPE	ETBE	MTBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
MW3/11-02-01	<1.0	<1.0	<1.0	<1.0	< 5.0	< 500	< 50	<1.0	<1.0
MW3/04-12-02	<1.0	<1.0	<1.0	<1.0	<25			< 0.5	< 0.5
MW3/07-12-02	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 500	< 50	< 0.5	< 0.5
MW3/04-01-03	<1.0	<1.0	<1.0	<1.0	<10	<1,000	< 50	< 0.5	< 0.5
MW3/10-06-03	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	-	-	< 0.5	< 0.5
MW3/03-11-04	<1.0	<1.0	<1.0	<1.0	<10	-	-	< 0.5	< 0.5
MW3/06-30-04	<1.0	<1.0	<1.0	<1.0	<10	-	-	< 0.5	< 0.5
MW3/10-20-04	<1.0	<1.0	<1.0	<1.0	<10	-	-	< 0.5	< 0.5
MW3/10-29-04	<1.0	<1.0	<1.0	<1.0	<10	-	-	< 0.5	< 0.5
MW3/01-25-05	<1.0	<1.0	<1.0	<1.0	<10	-	-	< 0.5	< 0.5

Notes:

µg/l:micrograms per literDIPE:Di-isopropyl EtherETBE:Ethyl tertiary-Butyl EtherMTBE:Methyl-tertiary-Butyl EtherTAME:tertiary-Amyl Methyl Ether

TBA: tertiary Butyl Alcohol or tertiary Butanol EDB: Ethylene Dibromide or 1,2-Dibromoethane

1,2-DCA: 1,2-Dichloroethane



Site Background Information Former MEL BOKIDES PETROLEUM - Linden 8203 East Highway 26, Stockton, California

The site was formerly a gasoline station and mini-mart. On 07 May 1999, three USTs, associated piping and a dispenser island were removed from the site by Semco of Modesto. Six soil samples were collected beneath the USTs, two soil samples were collected beneath the dispenser area and four laboratory composited soil samples were collected from the excavated soil.

Approximately 150 cubic yards of soil were excavated during removal of the USTs; subsequent to the soil sampling activities, the soil was placed back into the excavation.

Laboratory analysis of the soil samples detected total petroleum hydrocarbons quantified as gasoline (TPH-g) at concentrations up to 17,000 milligrams per kilogram (mg/kg) beneath the northern UST (Tank#1); benzene, toluene, ethylbenzene and xylenes (BTEX) were detected at concentrations as high as 3,000,000 micrograms per kilogram (μ g/kg).

Methyl tertiary butyl ether (MTBE) and/or tertiary butanol (TBA) were detected in soil samples collected from the former UST excavation and stockpiled soil at the site at concentrations as high as 160,000 µg/kg MTBE. The presence of high concentrations of MTBE in the soil samples indicated that an unassessed mass of MTBE remained at the site.

INTERIM SOIL REMEDIATION

On 21 March 2000, AGE personnel excavated 195 metric tons of impacted soil from the former tank pit utilizing an excavator outfitted with a 2.45 cubic-yard bucket. Following the removal of the original soil backfill material, the excavation was enlarged and deepened to an approximate depth of 22 feet bsg, and soil samples were collected from the floor (F-1) and walls (WW, EW, NW and SW) of the excavation, as well as the soil stockpiles, for laboratory analysis. On 22 March 2000, the impacted soil was transported from the site and disposed of at Forward Landfill.

TPH-g was detected in excavation soil samples F-1, WW, EW and NW at 6.0 mg/kg, 23,000 mg/kg, 29 mg/kg and 32 mg/kg, respectively; TPH-g was not detected in sample SW.

BTEX compounds were detected in all excavation samples except SW, at maximum concentrations of 56 mg/kg benzene, 1,700 mg/kg toluene, 470 mg/kg ethylbenzene and 2,900 mg/kg xylenes in sample WW.

MTBE was detected in all excavation samples at concentrations ranging from 28 μ g/kg (SW) to 140,000 μ g/kg (WW). TAME was detected only in sample WW at 9,200 μ g/kg; TBA was detected in samples F-1 and NW at 6,100 μ g/kg and 100 μ g/kg, respectively.

Site Background Information: Mel Bokides Petroleum - Linden Page 2 of 5

The composited stockpile soil samples contained TPH-g at concentrations ranging from 1,900 mg/kg to 2,100 mg/kg. BTEX compounds ranged from below laboratory detection limits (benzene in sample SPA-D) to 280 mg/kg (xylenes in sample SPH-L). MTBE, TAME and TBA were detected as high as 3,000 μ g/kg, 240 μ g/kg and 3,500 μ g/kg, respectively.

AGE calculated that approximately 126 gallons of gasoline were removed in the soil excavated during the interim remediation. The highest concentrations of petroleum hydrocarbon compounds left in place were detected in the sample collected from the western wall of the former excavation. Lower concentrations of petroleum hydrocarbons as gasoline were also detected in the floor sample and samples collected from the north and west sidewalls. Fuel oxygenates, including MTBE, TAME and TBA were detected in all samples.

SITE ASSESSMENT

On 15 through 17 October 2001, six soil borings (B1 through B6) were advanced at the site; three soil borings, B1 through B3, were established as ground water monitoring wells MW-1 through MW-3, respectively.

Soil in the area of boring B1 (MW-1) and borings B4 and B5 were found to contain high concentrations of petroleum hydrocarbons at depths of 15 bsg, with reduced concentrations encountered at depths to 70 feet bsg.

Ground water monitoring data from the initial ground water monitoring event on 02 November 2001 indicated that ground water was flowing towards the northeast, and was locally impacted by the oxygenated fuel additive MTBE.

On 27 September 2002, monitoring well MW-1 was destroyed by drilling out the entire boring length and backfilling with neat cement and bentonite in the upper 15 feet of the excavation. Additionally, the domestic on-site well was destroyed by percussion explosion and backfilled with a sand and cement mix.

ADDITIONAL SITE ASSESSMENT AND REMEDIATION FEASIBILITY

On 09 through 11 September 2003, a total of seven soil borings were advanced at the site: boring B6' was advanced north of the excavation area at a 20 degree angle, to an extent of 80 feet; B7 was advanced southeast of well MW-2 to 70 feet bsg; boring MW-1R was installed east of the former UST area to 100 feet bsg; vapor well VW1B was advanced under the building at a 20 degree angle to an extent of 40 feet, VW1A was installed east of the former UST area to 70 feet bsg; VW2 was installed east of the former UST area to 40 feet bsg and VW3 was installed south of well MW-3 to

Site Background Information: Mel Bokides Petroleum - Linden Page 3 of 5

60 feet bsg. Soil samples were collected at five foot intervals, generally beginning at 10 feet bsg, or where native soil was encountered below back fill.

A total of 28 soil samples were analyzed. Samples from B6' had concentrations of BTEX compounds and MTBE above laboratory reporting limits. MTBE ranged from 0.010 milligrams per kilogram (mg/kg) to 0.63 mg/kg. Maximum concentrations of BTEX compounds were 0.020 mg/kg benzene, 0.060 mg/kg toluene, 0.030 mg/kg ethylbenzene and 0.070 mg/kg xylenes. The sample results from B7 showed only one contaminated sample, at 30 feet, with 0.49 mg/kg MTBE. Samples from MW-1R had 1.2 mg/kg TPH-g at 40 feet; MTBE was detected at concentrations of 0.43 mg/kg and 1.2 mg/kg at 30 and 40 feet, respectively; TAME was detected at 30 and 40 feet, at concentrations of 0.040 mg/kg and 0.030 mg/kg, respectively.

Results from VW1A showed TPH-g and TAME at 40 feet with concentrations of 4.6 mg/kg and 0.010mg/kg, respectively. MTBE was detected from 40 to 60 feet, ranging from 0.030 mg/kg to 4.2 mg/kg. Soil from VW3 had MTBE at 30 and 40 feet with concentrations of 0.020 mg/kg and 0.060 mg/kg, respectively.

Monitoring and vapor extraction wells were completed within the following intervals: MW-1R from 80 feet to 100 feet bsg; VW1B from 15 feet to 40 feet bsg; VW1A from 40 feet to 70 feet bsg; VW2 from 15 feet to 40 feet bsg; VW3 from 20 feet to 50 feet bsg.

MTBE was detected in the ground water sample collected from well MW-1 at a concentration of $120 \mu g/l$.

SVE REMEDIATION FEASIBILITY PROCEDURES

Two separate soil vapor extraction pilot tests were conducted on 18 September 2003 and 06 October 2003. On 18 September 2003, the upper sand layer was tested using vapor well VW1B, screened from 15 feet bsg to 40 feet bsg, as the extraction well. On 06 October 2003, a second pilot test was conducted on the fine-grained deeper impacted areas closest to ground water at the site using vapor well VW1A, screened from 40 feet bsg to 70 feet bsg as the extraction well. The pilot tests were initiated at 8:00 am and continued for 8 hours. A total of four soil vapor samples were collected during each pilot test.

Analytical results of soil vapor samples were generally highest in the second sample collected on 18 September. Extraction well VW1B results indicated: TPH-g was detected in all the soil vapor samples at concentrations ranging from 11,000 μ g/l to 14,000 μ g/l; benzene, toluene, ethylbenzene and xylenes were detected in every sample at concentrations as high as 54 μ g/l benzene, 1,400 μ g/l toluene, 160 μ g/l ethylbenzene, 990 μ g/l xylenes; and MTBE was detected in all the samples ranging from 730 μ g/l to 860 μ g/l. Toluene and total xylenes were detected in one sample collected from

Site Background Information: Mel Bokides Petroleum - Linden Page 4 of 5

VW1A on 06 October at a concentration of $0.39 \mu g/l$ and $0.29 \mu g/l$, respectively. No other analytes were detected at or above laboratory reporting limits in the soil vapor samples.

The shallow test results indicated the flow rate was initially measured at 42 cfm (standard cubic feet per minute) and the maximum observed was 75 cfm. OV readings ranged from 923 ppm to 1,100 ppm. Induced vacuum measured at the extraction well VW1B ranged from 20 to 32 inches of water. On 06 October 2003, the lower screened vapor extraction test results had measured flow rates between 25 cfm and 31 cfm; a much lower flow was observed. OV readings ranged from 1.2 ppm to 2.5 ppm, which was consistent across the pilot test. Induced vacuum measured at the extraction well (VW1A) was always greater than 100 inches of water.

During the shallow soil vapor extraction pilot test (18 September) the greatest induced vacuum was measured in the observation point nearest the extraction well, at 0.60 inches of water in wells VW2 and VW3. The lowest vacuum was measured in MW-3, approximately 30 feet west of the extraction point and screened much lower in the stratigraphy at the site; however, sufficient induced vacuum was observed in the monitoring wells to demonstrate that a vertical connection may exist across the vertically separated layers at the site.

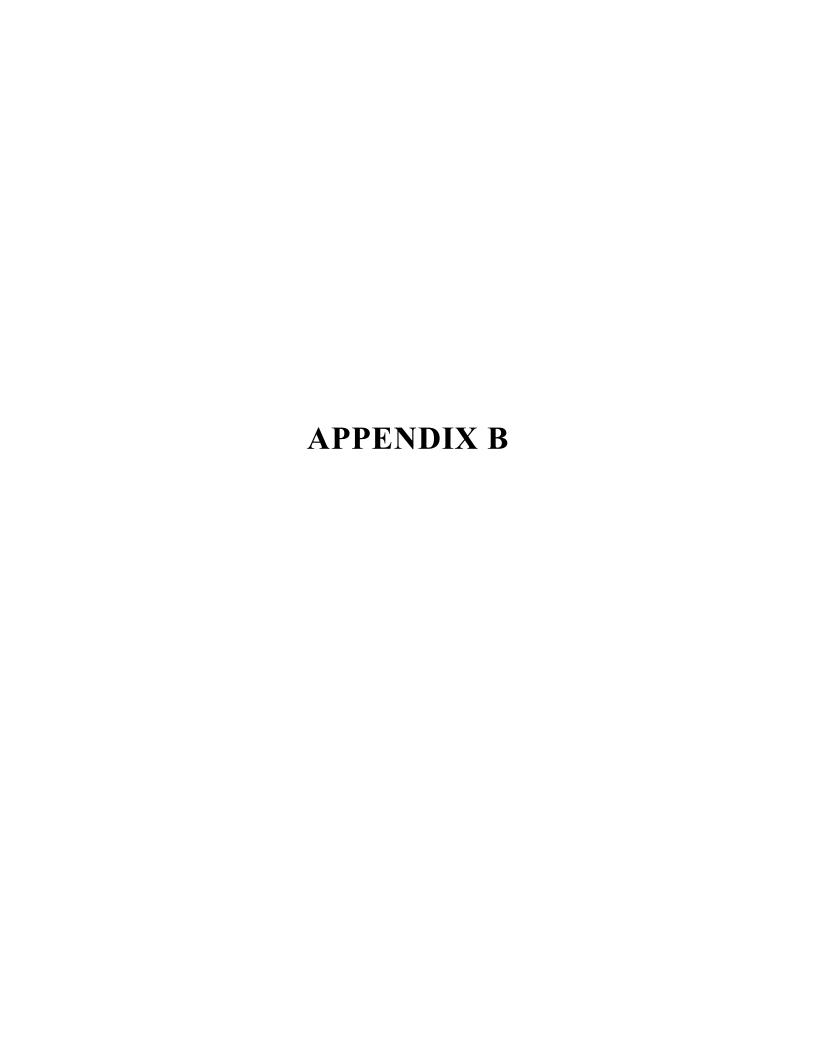
During the deeper soil vapor extraction pilot test (06 October) the greatest induced vacuum was measured in the observation point nearest the extraction well, at 0.45 inches of water in well MW-1R. The lowest vacuum was measured in VW2 and VW1B, approximately 20 feet west of the extraction point and screened above the lower stratigraphy at the site. Again, sufficient induced vacuum was observed in the monitoring wells and also in the upper soil vapor extraction wells, to demonstrate that a vertical connection may exist across the vertically separated layers at the site.

AGE plotted on a logarithmic scale the maximum vacuum measured at the observation points during the pilot test versus the distance from the extraction well. The effective radius of influence was determined by drawing a best-fit line though these data points to correlate distance to vacuum data. At a vacuum potential of 0.10 inches of water, the radius of influence is approximately 30 feet for the lower screened well (VW1A) and radius of influence is approximately 40 feet for the upper screened well (VW1B); at an induced vacuum potential of 1.0 inches of water, the radius of influence is 20 feet for well VW1A and approximately 25 feet for well VW1B. Further, a vacuum potential of 10.0 inches of water the radius of influence is less than 10 feet. Based upon an effective vacuum potential of 0.1 inches of water, the calculated effective radius of influence at the site will be 30 feet up to almost 40 feet for the upper screened vapor well. The majority of the residual impacted soil would be collected within the 40 foot radius of influence.

SITE CONCEPTUAL CONCLUSIONS

Based on the data collected from the site, AGE concludes:

- The sand units occurred at depths of 15 to 30 feet bsg and 75 or 80 feet to 80 or 85 feet bsg. The deepest sand unit previously encountered may actually be two thinner units. Ground water was encountered at approximately 96 feet bsg. Ground water flow direction at the site was northwest. The decrease of ground water elevation of approximately 4 feet between July 2002 and October 2003 may be due to seasonal fluctuation.
- TPH-g was detected in the soil boring sample collected north of the site (B6'). Low concentrations of MTBE were detected in the soil sample to a depth of 55 feet bsg in the same boring. Benzene concentrations were detected in the two deepest soil samples collected from the northern boring, indicating the northern migration of only benzene, at a depth of 60 feet to 70 feet bsg or the presence of another source off the northern edge of the site. With no detections of benzene in the upper 55 feet of boring B6'/6, only low detections of benzene in the former UST soil boring B1, all less than 0.1 mg/kg, and the lack of detectable hydrocarbons in the soil boring MW-1R below 50 feet bsg; the source of the off-site benzene detected in the furthermost reach of boring B6' appears to be from another source than the UST release. However, soil vapor extraction on-site will likely effectively mitigate the detections off-site.
- TPH-g was not detected in the soil boring sample collected at the west edge of the site (VW3). Only low concentrations of MTBE were detected at 30 and 40 feet bsg in boring VW3. TPH-g was not detected in the soil boring sample collected at the southern edge of the site (B7). Only one detection of MTBE was in the soil, from 30 feet bsg in boring B7.
- TPH-g was only detected in the upper most soil sample from boring VW1A, at the east edge of the site. MTBE was detected in samples from boring B7 from 40 feet to 60 feet bsg. The lateral extent of adsorbed MTBE may extend below the eastern boundary of the site. Soil vapor extraction on-site will likely effectively mitigate the MTBE off-site.
- Generally, the highest concentrations of MTBE were detected within a 45 foot thick interval, occurring between 15 feet and 60 feet. The vertical extent of the MTBE-impacted soil was limited to less than 70 feet bsg.
- MTBE was detected in one ground water sample (MW-1) at a concentration of 120 μ g/l. This concentration exceeds the maximum contaminant level for MTBE in drinking water.
- Based upon effective vacuum potential of 0.1 inches of water, the calculated effective radius of influence at the site for vapor wells screened from 15 feet to 40 feet bsg will be approximately 40 feet. The calculated effective radius of influence at the site for vapor wells screened from 40 feet to 70 feet bsg or greater will be approximately 30 feet.
- TPH-g, TPH-d and BTEX compounds were not detected in the three water samples collected.



GeoEnvironmental, Inc.

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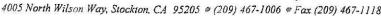


Ground Water Depth & Dissolved Oxygen Field Log

Project: MRP Linden	Date: 1/25/05
Field Personnel:	Page: 1 of 1

Well LD.	Time	Casing Elev.	Depth to Free Product	Depth to Water	Ground Water Elev.	Measured Depth	Acres Total Depth	ØRP		solved ygen %	l oC
MWZ MWZ MWB	0819	Section 2. Line 44 to 9 at a section 2 de 1889.		91.64 91.44 91.29	-46.08		100-02				
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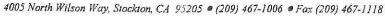




Monitoring Well Field Log

			V	VeII :	Data					
Project Nar	ne:	> Lind	PM		Project AGE-N		Date: /25/05	CONTO		
Pre-Purge I	DTW: 91.		Time:0819	1	Well I.	D.:				
Post-Purge	DTW: 92	.03	Time:0900			MW) (
Total Depth	of Well:	2 Well	Volume:	1	Casing Diameter: 2" 4" 6" Gal./Ft.: 0.16 0.65 1.47					
Sampler(s):					Sample	Containers:	st 1 Amber			
Sample I.D	:	1025	.05	***************************************	Analys	Control in the particular and the particular				
*			Stabi	lizat	ion Da	ta	TERRE BETTER LETTER BETTER	CP-CO		
Time	Volume (gallons)	pH	Temp.		ond S/cm	Color/ Turbidity	Notes	Magazina		
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0859	3	1,71	717	(0	61	u u	М			
0903	4.5	6.75	Tile	10	58	Κ.	4			
				n 740 n 180 k						
Purge Metho		SISP	Ba	ME	MV					
Sample Met	hod:	Sand			Well In	tegrity:				
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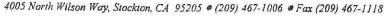
Monitoring Well Field Log

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Project Name:					Project No.: Date:			
MBP Linden				7.0	AGE-NC- 1/25/05			
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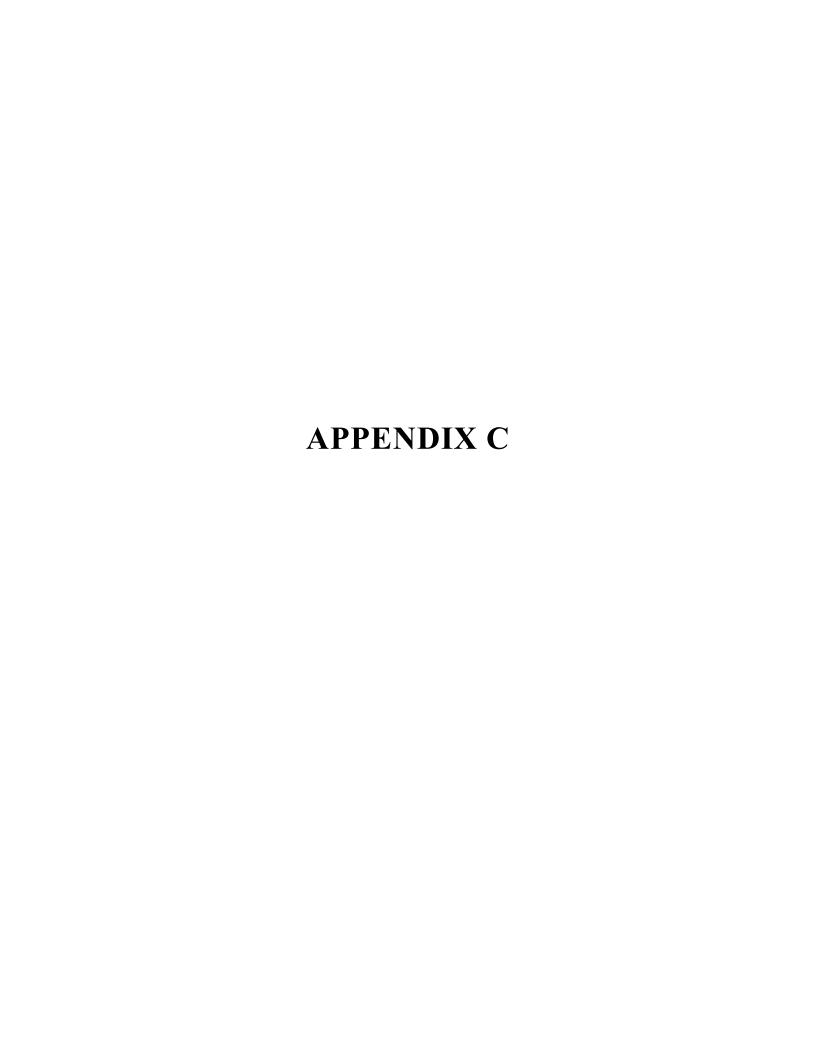
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Monitoring Well Field Log

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Sample Time	Sample Time: 0959			Dissolv	Dissolved O ₂ :			
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				H		4):		



CAL TECH Environmental Laboratories

6814 Rosecrans Avenue, Telephone: (562) 272-2700

Paramount, CA 90723-3146 Fax: (562) 272-2789

ANALYTICAL RESULTS*

CTEL Project No:

CT214-0412192

Client Name:

Advanced Geo Environmental, Inc.

837 Shaw Road

Stockton, CA 95215

Attention:

Mr. Bill Little

Project ID:

Global ID: T0607700895

Project Name:

MBP - Linden

Date Sampled: Date Received: 12/22/04 @ 11:54 am 12/23/04 @ 09:00 am

Date Analyzed

12/23/04

Matrix: Air

Phone: (209) 467-1006

Fax: (209) 467-1118

Laboratory ID: Client Sample ID: Dilution	0412-192-1 Influent 1	0412-192-2 Effluent	Method	Units:	Detection Limit
MtBE	12	ND	SW846 8021	ug/L	0.5
Benzene	ND	ND	SW846 8021	ug/L	0.5
Toluene	1.7	ND	SW846 8021	ug/L	0.5
Ethylbenzene	2.6	ND	SW846 8021	ug/L	0.5
Total Xylene	25	4.0	SW846 8021	ug/L	1
TPH - Gasoline	650	120	EPA 8015M	ug/L	50

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE		% SU	RROGATE RECOVERY	Control Limit
a,a,a - TFT	97	103		70-130
Bromofluorobenzene	102	106		70-130

Greg Pejirian

Laboratory Director

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

^{*}The results are base upon the sample received.



QA/QC Report

Method:

8015M / 8021B

Matrix:

Water

Date Analyzed:

12/23/04

Date Extracted:

12/23/04

Perimeters	Conc.	ug/L	Spike	Recovery	%	Control	Limits	RPD
	LCS	LCSD	Added	LCS	LCSD	Rec.	RPD	
Benzene	40	42	50	80	84	70-130	20	4
Toluene	41	42	50	82	84	70-130	20	2
Ethybenzene	45	47	50	90	94	70-130	20	4
Xylenes	90	93	100	90	93	70-130	20	3
TPH - Gasoline	1027	1051	1000	103	105	70-130	20	2

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

Method Blank

Perimeters	Method Blank	Units	Det. Limit
MTBE	ND	ug/L	0.5
Benzene	ND	ug/L	0.5
Toluene	ND	ug/L	0.5
Ethybenzene	ND	ug/L	0.5
Xylenes	ND	ug/L	1
TPH - Gasoline	ND	ug/L	50

Advanced GeoEnvironmental, Inc.

837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

CHAIN OF CUSTODY RECORD

Date 1220 of Page of

837 Shaw Road - Stockton, California - 95215 - (209)		467-1006 - Fax (209) 467-1118		2-192	
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		1			
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Reinquished by: (Signature)	Received by: (Signature)		90	bate/Time	
Relinquished by: (Signature)	Received by Mobile Labors	Received by Mobile Laboratory for field analysis: (Signature)	18	Date/Time	
Dispatched by: (Signature)	Date/Time	Received for Laboratory by	influenting	Date/Time 12-25.04 9:09	8
Method of Shipment:	18/14		Laboratory Name	ul	
Special Instructions:	2		I hereby authorize the pe	performance of the above indicated work.	
				3	

CAL TECH Environmental Laboratories

6814 Rosecrans Avenue, Telephone: (562) 272-2700

Paramount, CA 90723-3146 Fax: (562) 272-2789

ANALYTICAL RESULTS*

CTEL Project No:

CT214-0501132

Client Name:

Advanced Geo Environmental, Inc.

837 Shaw Road

Stockton, CA 95215

Attention:

Mr. Bill Little

Project ID: Project Name:

Global ID: T0607700895

MBP - Linden

Date Sampled: Date Received:

01/21/05 @ 12:10 p.m. 01/22/05 @ 09:00 am

Date Analyzed

01/22/05

Matrix: Air

Phone: (209) 467-1006

Fax: (209) 467-1118

Laboratory ID: Client Sample ID: Dilution	0501-132-1 Influent 1	0501-132-2 Effluent 1	Method	Units:	Detection Limit
McBE	35	ND	SW846 8021B	ug/L	0.5
Benzene	ND	ND	SW846 8021B	ug/L	0.5
Toluene	2.0	1.4	SW846 8021B	ug/L	0.5
Ethylbenzene	3.8	ND	SW846 8021B	ug/L	0.5
Total Xylene	41	5.0	SW846 8021B	ug/L	1
TPH - Gasoline	450	ND	EPA 8015M	ug/L	50

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE		% SURROGATE RECOVER	Y Control Limit
a,a,a - TFT	84	75	70-130
Bromofluorobenzene	82	83	70-130

Greg Tejirian

Laboratory Director

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

^{*}The results are base upon the sample received.

QA/QC Report

Method:

8015M / 8021B

Matrix:

Water

Telephone: (562) 272-2700

Date Analyzed:

1/22/05

Date Extracted:

1/22/05

Perimeters	Conc.	ug/L	Spike	Recovery	%	Control	Limits	RPD
	LCS	LCSD	Added	LCS	LCSD	Rec.	RPD	
Benzene	44	42	50	88	84	70-130	20	4
Toluene	43	43	50	86	86	70-130	20	0
Ethybenzene	47	45	50	94	90	70-130	20	4
Xylenes	92	88	100	92	88	70-130	20	4
TPH - Gasoline	1040	992	1000	104	99	70-130	20	5

Fax: (562) 272-2789

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

Method Blank

Perimeters	Method Blank	Units	Det. Limit
MTBE	ND	ug/L	0.5
Benzene	ND	ug/L	0.5
Toluene	ND	ug/L	0.5
Ethybenzene	ND	ug/L	0.5
Xylenes	ND	ug/L	1
TPH - Gasoline	ND	ug/L	50

GeoEnvironmental, Inc. Advanced

CHAIN, OF, CUSTODY RECORD 9 Date 1/21,

	Tests Required		Invoice:	AGE C	Notes						1/2/15 1/30	Date/Time	Date/Time	Date/Time -12-05 7:03-	,	the above indicated work.	1
01-132	Te		Part of the same o		No. of Conts.	*	X				10	×	SOM	Robert	Laboratory Names	I hereby authorize the performance of the above indicated work.	the Man
467-1006 - Fax (209) 467-1118	Project Manager	Ž.	Samplers: (Signature)	Re Khag	Sample Type Water Comp. Grab. Air	×	T						Received by Mobile Laboratory for field analysis: (Signature)	Received for Laboratory by:			
837 Shaw Road - Stockton, California - 95215 - (209) 467-10	etro.			La L	Date	1/2/05 1210	1/2/14 1214			-	Received by: (Signature)	Received by: (Signature)	Received by Mobile Labor	Date/Time	MIGHT		
837 Shaw Road - Stockto	Client Mel Bokules 1			Project Name MBP / Lind	Sample Location Number Description	ZNT (west	THE THE STATE OF T			1001	Relinguished by: (Signature)	Refinquished by: (Signattife)	Relinquished by: (Signature)	Dispatched by: (Signature)	Method of Shipment:	Special Instructions:	

CAL TECH Environmental Laboratories

6814 Rosecrans Avenue, Telephone: (562) 272-2700

Paramount, CA 90723-3146 Fax: (562) 272-2789

ANALYTICAL RESULTS*

CTEL Project No: CT214-0502102

Client Name:

Advanced Geo Environmental, Inc.

837 Shaw Road

Stockton, CA 95215

Attention:

Mr. Bill Little

Project ID:

Global ID: T0607700895

Project Name:

MBP - Linden

Date Sampled: Date Received: 02/16/05 @ 15:40 p.m. 02/17/05 @ 08:30 am

Date Analyzed

02/17/05

Matrix: Air

Phone: (209) 467-1006

Fax: (209) 467-1118

Laboratory ID: Client Sample ID: Dilution	0502-102-1 Influent 1	0502-102-2 Effluent 1	Method	Units:	Detection Limit
MtBE	180	ND	SW846 8021B	ug/L	0.5
Benzene	11	ND	SW846 8021B	ug/L	0.5
Toluene	23	ND	SW846 8021B	ug/L	0.5
Ethylbenzene	ND	ND	SW846 8021B	ug/L	0.5
Total Xylene	ND	ND	SW846 8021B	ug/L	1
TPH - Gasoline	820	ND	EPA 8015M	ug/L	50

ND = Not Detected at the indicated Detection Limit

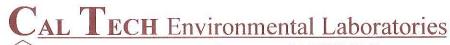
SURROGATE SPIKE		% SURROGATE RECOVER	Y Control Limit
a,a,a - TFT	84	86	70-130
Bromofluorobenzene	98	101	70-130

Greg Terrian

Laboratory Director

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

^{*}The results are base upon the sample received.



Telephone: (562) 272-2700

6814 Rosecrans Avenue, Paramount, CA 90723-3146 Fax: (562) 272-2789

QA/QC Report

Method:

8015M / 8021B

Matrix:

Water

Date Analyzed:

2/17/05

Date Extracted:

2/17/05

Perimeters	Conc.	ug/L	Spike	Recovery	%	Control	Limits	RPD
	LCS	LCSD	Added	LCS	LCSD	Rec.	RPD	
Benzene	51	53	50	102	106	70-130	20	4
Toluene	46	49	50	92	98	70-130	20	6
Ethybenzene	47	50	50	94	100	70-130	20	6
Xylenes	97	104	100	97	104	70-130	20	7
TPH - Gasoline	1065	1099	1000	107	110	70-130	20	3

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

Method Blank

Perimeters	Method Blank	Units	Det. Limit
MTBE	ND	ug/L	0.5
Benzene	ND	ug/L	0.5
Toluene	ND	ug/L	0.5
Ethybenzene	ND	ug/L	0.5
Xylenes	ND	ug/L	1
TPH - Gasoline	ND	ug/L	50

IN OF CU	Date // / Page of /	2-102	Tests Required
Ö	ä	0	8
Advanced	GeoEnvironmental, Inc.	837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118	Project Manager
C			Client MRP

Client MBP Linder	Project, Manager	Test	Tests Required
Mel Befoles Hetro	Phone Number (200) 467 10 Samplers: Asignature)	20	Invoice:
Project Name WBP / Hwile	In the	Service In	AGE Z
Sample Location Number Description	Date Time Water Solid	No. of Conts.	Notes
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EP Pluent	2/16/08 1537		
Relinquished by (Signature)	Received by: (Signature)		2/16/05 1630
Relinquished by: (Signature)	Received by: (Signature)	34	/ Date/Time
Relinquished by: (Signature)	Received by Mobile Laboratory for field analysis: (Signature)		Date/Time
Dispatched by: (Signature)	Date/Time Received for Laboratory by	12 Caharta	2-17-05/4:30
Method of Shipment: (De Cherman	DIS	Laboratory Name) andiochai andiocha
Special Instructions:	,	nereby authorize the periormance of the	le above markated work.
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CAL TECH Environmental Laboratories

6814 Rosecrans Avenue, Telephone: (562) 272-2700

Paramount, CA 90723-3146 Fax: (562) 272-2789

ANALYTICAL RESULTS*

CTEL Project No:

CT214-0503081

Client Name:

Advanced Geo Environmental, Inc.

837 Shaw Road

Stockton, CA 95215

Attention:

Mr. Bill Little

Project ID:

Global ID: T0607700895

Project Name:

MBP - Linden

Date Sampled: Date Received: 03/08/05 @ 08:12 am 03/09/05 @ 09:00 am

Date Analyzed

03/09/05

Matrix: Air

Phone:(209) 467-1006

Fax: (209) 467-1118

Laboratory ID: Client Sample ID: Dilution	0503-081-1 Influent-V 1	0503-081-2 Effluent-V 1	Method	Units:	Detection Limit
MtBE	7.6	ND	SW846 8260B	ug/L	0.5
Benzene	ND	ND	SW846 8260B	ug/L	0.5
Toluene	35	7.5	SW846 8260B	ug/L	0.5
Ethylbenzene	2.2	ND	SW846 8260B	ug/L	0.5
Total Xylene	12	5.2	SW846 8260B	ug/L	1
TPH - Gasoline	650	110	EPA 8015M	ug/L	50

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE		O CHDDOCATE DECOME	RY Control Limit
Dibromofluoromethane	97	91	70-130
1,2 Dichloroethaned4	98	92	70-130
Toluene-d8	101	105	70-130
Bromofluorobenzene	106	104	70-130

Greg Tejirian

Laboratory Director

^{*}The results are base upon the sample received.

6814 Rosecrans Avenue, Telephone: (562) 272-2700

Paramount, CA 90723-3146 Fax: (562) 272-2789

QA/QC Report

Method:

8015M

Matrix:

Water

Date Analyzed:

3/9/05

Date Extracted:

3/9/05

Perimeters	Conc.	ug/L	Spike	Recovery	%	Control	Limits	RPD
	LCS	LCSD	Added	LCS	LCSD	Rec.	RPD	
TPH - Gasoline	1065	1037	1000	107	104	70-130	20	3

Perimeters	Method Blank	Units	Det. Limit
TPH - Gasoline	ND	ug/L	50

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

QA/QC Report

Method:

8260B

Matrix:

Water

Date Analyzed:

3/9/05

Date Extracted:

3/9/05

Perimeters	Conc.	ug/L	Spike	Recovery	%	Control	Limits	RPD	
	LCS	LCSD	Added	LCS	LCSD	Rec.	RPD		
1,1-Dichloroethene	42	43	50	84	86	70-130	20	2	
Benzene	44	46	50	88	92	70-130	20	4	
Tric hl oroethene	45	47	50	90	94	70-130	20	4	
Tolu e ne	41	43	50	82	86	70-130	20	4	
Chlorobenzene	43	47	50	86	94	70-130	20	8	
m,p-Xylenes	88	94	100	88	94	70-130	20	6	

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/L	1
Benzene	ND	ug/L	0.5
Trichloroethene	ND	ug/L	0.5
Toluene	ND	ug/L	0.5
Chlorobenzene	ND	ug/L	0.5
m,p-Xylenes	ND	ug/L	0.6
MTBE	ND	ug/L	1
TBA	ND	ug/L	10
DIPE	ND	ug/L	1
ETBE	ND	ug/L	1
TAME	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	0.5
EDB	ND	ug/L	0.5
Ethylbenzene	ND	ug/L	0.5
o-Xylene	ND	ug/L	0.6
TCE	ND	ug/L	1
PCE	ND	ug/L	1

837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

Advanced

GeoEnvironmental, Inc.

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CHAIR	Date 3

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467-1006 - Fax (209) 467-1118	Project Manager	- Ch	Samplers: (Signature)	Rellad	Sample Type Water Comp. Grab. Air	+	X					Received by Mobile Laboratory for field analysis: (Signature)	Received for Laboratory by:				
837 Shaw Road - Stockton, California - 95215 - (209) 467-11	9.			en	Date Time	3/8/05 812	4/8/05/8/14			Received by: (Signature)	Received by: (Signature)	Received by Mobile Labor	Date/Time	the service			
837 Shaw Road - Stockt	client Mel Bolcides Dext			Project Name MRP/LINA	Sample / Location Number Description	NF (ueust // alor	Fluent Wasor			Relinquished M: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)	Dispatched by: (Signature)	Method of Shipment:	Special Instructions:		

CAL TECH Environmental Laboratories

6814 Rosecrans Avenue, Telephone: (562) 272-2700

Paramount, CA 90723-3146 Fax: (562) 272-2789

ANALYTICAL RESULTS*

CTEL Project No:

CT214-0503243

Client Name:

Advanced Geo Environmental, Inc.

837 Shaw Road

Stockton, CA 95215

Phone: (209) 467-1006 Fax: (209) 467-1118

1

Attention:

Mr. Bill Little

Project ID: Project Name: Global ID: T0607700895 MBP – Linden SVE

Date Sampled: Date Received: 03/23/05 @ 15:15 p.m. 03/24/05 @ 09:00 am

03/24/05

Matrix: Air

Date Analyzed

Laboratory ID: 0503-243-1 Method **Units:** Detection Effluent-V Limit Client Sample ID: Dilution 1 ND SW846 8260B ug/L 0.5 **MtBE** ug/L SW846 8260B 0.5 Benzene ND ug/L 0.5 ND SW846 8260B Toluene ND SW846 8260B ug/L 0.5 Ethylbenzene Total Xylene ND SW846 8260B ug/L 1 50 EPA 8015M ug/L TPH - Gasoline ND

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE REC	COVERY Control Limit
Dibromofluoromethane	76	70-130
1,2 Dichloroethaned4	83	/()-/3()
Toluene-d8	97	70-130
Bromofluorobenzene	88	

Greg Tejirian

Laboratory Director

R. Yighout Es

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

^{*}The results are base upon the sample received.

6814 Rosecrans Avenue, Telephone: (562) 272-2700

Paramount, CA 90723-3146 Fax: (562) 272-2789

QA/QC Report

Method:

8015M

Matrix:

Water

Date Analyzed:

3/24/05

Date Extracted:

3/24/05

Perimeters	Conc.	ug/L	Spike	Recovery	%	Control	Limits	RPD
	LCS	LCSD	Added	LCS	LCSD	Rec.	RPD	
TPH - Gasoline	1023	1082	1000	102	108	70-130	20	6

Perimeters	Method Blank	Units	Det. Limit
TPH - Gasoline	ND	ug/L	50

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

6814 Rosecrans Avenue. Paramount, CA 90723-3146 Telephone: (562) 272-2700

Fax: (562) 272-2789

QA/QC Report

Method:

8260B

Matrix:

Water

Date Analyzed:

3/24/05

Date Extracted:

3/24/05

Perimeters	Conc.	ug/L	Spike	Recovery	%	Control	Limits	RPD
	LCS	LCSD	Added	LCS	LCSD	Rec.	RPD	
1,1-Dichloroethene	42	44	50	84	88	70-130	20	4
Benzene	47	47	50	94	94	70-130	20	0
Trichloroethen e	50	49	50	100	98	70-130	20	2
Toluene	49	50	50	98	100	70-130	20	2
Chlorobenzene	48	50	50	96	100	70-130	20	4
m,p-Xylenes	93	99	100	93	99	70-130	20	6

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/L	1
Name and the second sec		ug/L ug/L	0.5
Benzene	ND		
Trichloroethene	ND	ug/L	0.5
Toluene	ND	ug/L	0.5
Chlorobenzene	ND	ug/L	0.5
m,p-Xylenes	ND	ug/L	0.6
MTBE	ND	ug/L	1
TBA	ND	ug/L	10
DIPE	ND	ug/L	1
ETBE	ND	ug/L	1
TAME	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	0.5
EDB	ND	ug/L	0.5
Ethylbenzene	ND	ug/L	0.5
o-Xylene	ND	ug/L	0.6
Ethanol	ND	ug/L	50
Methanol	ND	ug/L	1000

837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

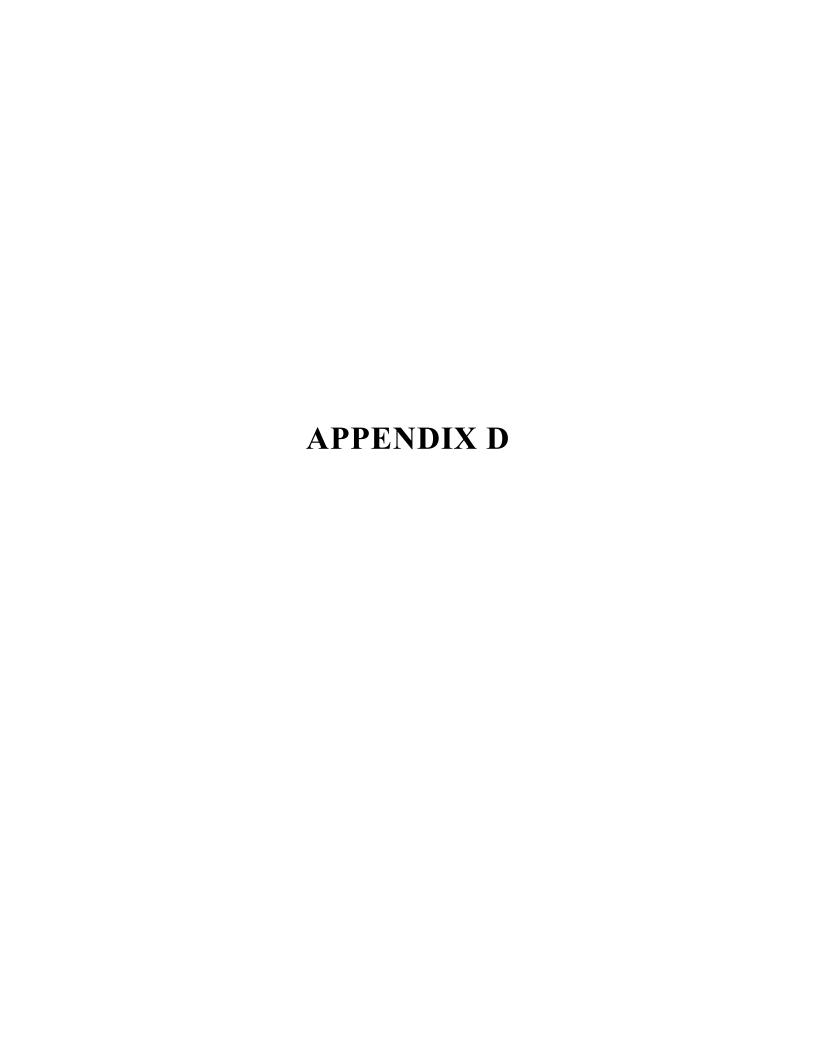
Advanced

GeoEnvironmental, Inc.

CHAIN OF CUSTODY RECORD

03-243

2	Tests Required			Invoice:	AGE Z		Notes					Date/Time	Date/Time	Date/Time	Date/Time	3 CE	of the above indicated work.		The state of the s
			7	re)		STATE OF THE PERSON OF THE PER	Conts.	イナ				147 1 M.C.N			or. R. Take Li	CARTECH ENVISO LAB	I hereby authorize the performance	willia Unit	
	Project Manager	Phone Number	#3000	Samplers: (Signature)	Willer hotel	- NO	Water Solid	>						Received by Mobile Laboratory for field analysis: (Signature)	Received for Laboratory by				
				51	U SVESTRES	-	Date Time	Wad 3/215315 Pm				Received by: (Signature)	Received by: (Signature)	Received by Mobile Labor	Date/Time				
	MBP ALL	10			MBA-LINDEN SVESI	Location	Description	Left SVE BAN				(Signature)	(Signature)	(Signature)	Signature)	Wordship	ons:		
	Client MB				Project Name	Samole	Number	THE BELLEY				Helingwished by: (Sign	Relinquished by: (Signature	Relinquished by: (Signature)	Dispatched by: (Signature)	Method of Shipment:	Special Instructions:		



Soil-Vapor Extraction Volume-Mass Calculations Former Mel Bokides Petroleum - Linden 8203 East Highway 26, Stockton, California

The hydrocarbon mass removed during the operating period can be calculated using the following equation: $M = C \cdot O \cdot t$

where: M = cumulative mass recovered (kg)

C = vapor concentration (kg/m³)

 $Q = \text{extraction flow rate } (m^3/\text{hr})$

t = operational period (hrs)

The calculations for the determination of volume and mass of hydrocarbons removed over the reporting period are provided below:

11-17-04 to 12-21-04

```
using: C<sub>vapor</sub> = (500+650 μg/l) ÷ 2 = 575 micrograms per liter converted to 0.000575 kg/m³

Q = 62 scfm (average) x 1.69 = 105 m³/hr

t = 840 hours (sum of known operation)

0.000575 kg/m³ • 105 m³/hr • 840 hours = 50.715 kg gasoline 50.715 kg gasoline • 2.205 lbs/kg = 111.8 lbs gasoline

to convert lbs gasoline to gallons gasoline, use 0.16 gal/lb: 111.8 lbs • 0.16 gal/lb = 17.89 gallons of gasoline
```

12-21-04 to 01-21-05

```
using: C_{vapor} = (650+450 \mu g/l) \div 2 = 550 \text{ micrograms per liter}
converted to 0.00055 \text{ kg/m}^3
Q = 67 \text{ scfm (average)} \text{ X } 1.69 = 113 \text{ m}^3/\text{hr}
t = 720 \text{ hours (sum of known operation)}
0.000550 \text{ kg/m}^3 \cdot 113 \text{ m}^3/\text{hr} \cdot 720 \text{ hours} = 44.75 \text{ kg gasoline}
44.75 \text{ kg gasoline} \cdot 2.205 \text{ lbs/kg} = 98.67 \text{ lbs gasoline}
to convert lbs gasoline to gallons gasoline, use 0.16 \text{ gal/lb}:
98.67 \text{ lbs} \cdot 0.16 \text{ gal/lb} = 15.79 \text{ gallons of gasoline}
```

Soil-Vapor Extraction Volume-Mass Calculations AGE-NC Project No. 99-0645 Page 2 of 2

01-21-05 to 02-18-05

```
using: C_{vapor} = (450+820 \ \mu g/l) \div 2 = 635 \ micrograms per liter converted to 0.000635 \ kg/m^3 Q = 65 \ scfm (average) X 1.69 = 109.85 \ m^3/hr t = 624 \ hours (sum of known operation) 0.000635 \ kg/m^3 \cdot 109.85 \ m^3/hr \cdot 624 \ hours = 43.53 \ kg \ gasoline 43.53 \ kg \ gasoline \cdot 2.205 \ lbs/kg = 95.98 \ lbs \ gasoline to convert lbs gasoline to gallons gasoline, use 0.16 \ gal/lb = 95.98 \ lbs \cdot 0.16 \ gal/lb = 15.36 \ gallons \ of gasoline
```

02-18-05 to 03-17-05

```
using: C<sub>vapor</sub> = (820+650 μg/l) ÷ 2 = 735 micrograms per liter converted to 0.000735 kg/m³

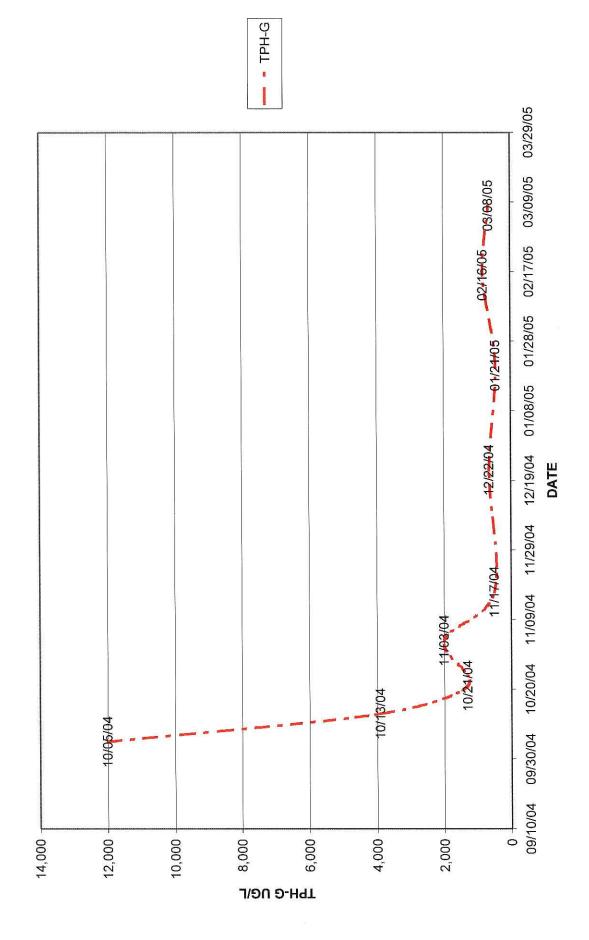
Q = 64 scfm (average) X 1.69 = 108 m³/hr

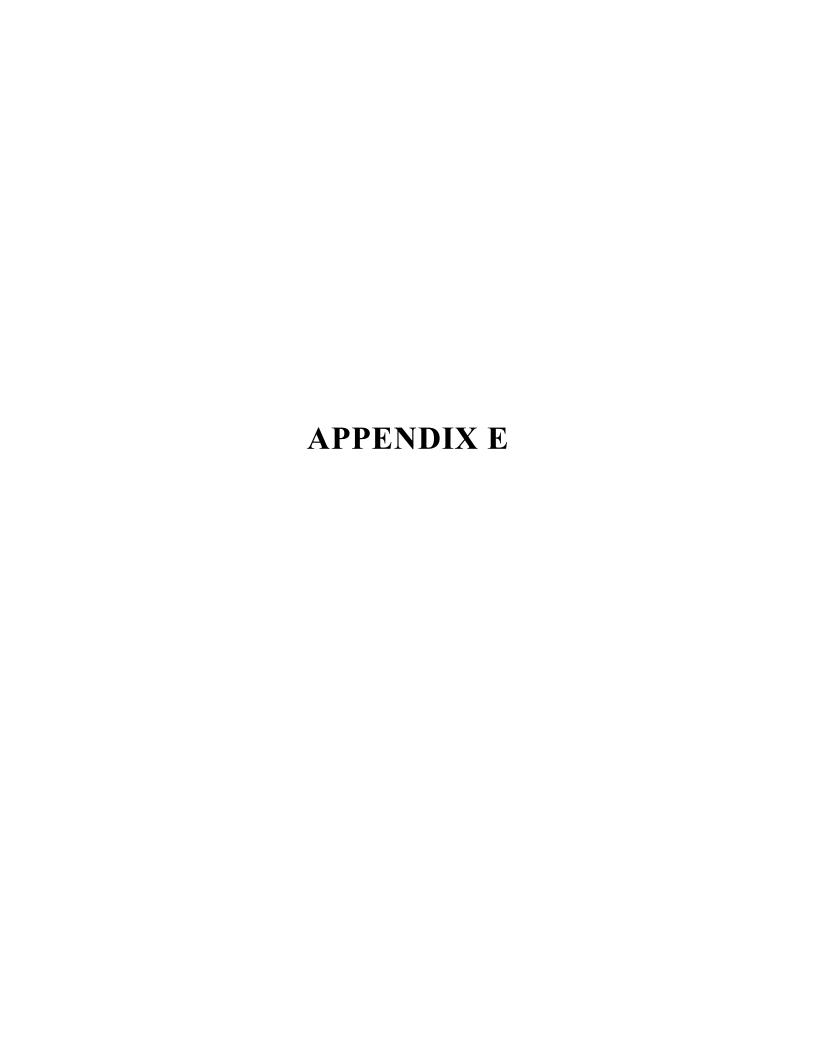
t = 216 hours (sum of known operation)

0.000735 kg/m³ • 108 m³/hr • 216 hours = 17.14 kg gasoline 17.14 kg gasoline • 2.205 lbs/kg = 37.80 lbs gasoline to convert lbs gasoline to gallons gasoline, use 0.16 gal/lb: 37.80 lbs • 0.16 gal/lb = 6.05 gallons of gasoline
```

Approximately 156.13 kg (344.25 pounds), or 55.09 gallons of hydrocarbons were extracted by the SVE system between 17 November 2004 and 17 March 2005. Approximately 1,138 lbs, or 182 gallons, of gasoline were extracted by the SVE system since 05 October 2004.

SOIL VAPOR EXTRACTION TREND





CAL TECH Environmental Laboratories

6814 Rosecrans Avenue, Telephone: (562) 272-2700

Paramount, CA 90723-3146 Fax: (562) 272-2789

ANALYTICAL RESULTS*

CTEL Project No: CT214-0501144

Client Name:

Advanced Geo Environmental, Inc.

837 Shaw Road

Stockton, CA 95215

Phone: (209) 467-1006 Fax: (209) 467-1118

Attention:

Mr. Bill Little

Project ID:

Global ID: T0607700895

Project Name:

MBP / Linden

Date Sampled: Date Received: 01/25/05 @ 09:07 am 01/26/05 @ 09:00 am

Matrix: Water

Date Analyzed	01/28/05

Laboratory ID; Client Sample ID; Dilution	0501-144-1 MW1 1	0501-144-2 MW2 1	0501-144-3 MW3 1	Method	Units:	Detection Limit
TPH - Gasoline	ND	ND	ND :	EPA 8015M	ug/L	50
TPH – Diesel	ND	ND	ND	EPA 8015M	ug/L	50
VOC, 8260B						
Dilution	10-2000-110-110-110-110-110-110-110-110-	1	1			
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	SW846 8260B	ug/L	1000
t-Butyl Alcohol (TBA)	ND	ND	ND	SW846 8260B	ug/L	10
Diisopropyl Ether (DIPE)	ND	ND	ND ND	SW846 8260B	ug/L	
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	SW846 8260B	ug/L	1
t-Amyl Methyl Ether (TAME)	ND	ND	ND	SW846 8260B	ug/L	
1,2-Dichloroethane	ND	ND	ND	SW846 8260B	ug/L	0.5
1,2-Dibromoethane(EDB)	ND	ND	ND ND	SW846 8260B	ug/L	0.5
Benzene	ND	ND	ND	SW846 8260B	ug/L	0.5
Toluene	ND '	ND.	ND	SW846 8260B	ug/L	0.5
Ethylbenzene	ND	ND	ND	SW846 8260B	ug/L	0.5
m,p-Xylene	ND	ND	ND	SW846 8260B	ug/L	0.6
o-Xylene	ND	ND	ND	SW846 8260B	ug/L	0.6
					CONTRACTOR OF STREET	

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE		% SU	RROGATE RECOVER	Y Control Limit
Dibromofluoromethane	73	79	76	70-130
1,2 Dichloroethaned4	87	81	83	70-130
Toluene-d8	94	91	87	70-130
Bromofluorobenzene		85	85	70-130

Greg Tejirian

Laboratory Director

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

^{*}The results are base upon the sample received.

6814 Rosecrans Avenue, Telephone: (562) 272-2700

Paramount, CA 90723-3146 Fax: (562) 272-2789

QA/QC Report

Method:

8015M

Matrix:

Water

Date Analyzed:

1/28/05

Date Extracted:

1/28/05

Perimeters	Conc.	ug/L	Spike	Recovery	%	Control	Limits	RPD
	LCS	LCSD	Added	LCS	LCSD	Rec.	RPD	
TPH - Gasoline	1100	1052	1000	110	105	70-130	20	5
TPH - Diesel	1966	1857	2000	98	93	70-130	20	5

Perimeters	Method Blank	Units	Det. Limit
TPH - Gasoline	ND	ug/L	50
TPH - Diesel	ND	ug/L	50

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

6814 Rosecrans Avenue. Telephone: (562) 272-2700

Fax: (562) 272-2789

QA/QC Report

Method:

8260B

Matrix:

Water

Date Analyzed:

1/28/05

Date Extracted:

1/28/05

Perimeters	Conc.	ug/L	Spike	Recovery	%	Control	Limits	RPD	
	LCS	LCSD	Added	LCS	LCSD	Rec.	RPD		
1,1-Dichloroethene	43	42	50	86	84	70-130	20	2	
Benzene	42	40	50	84	80	70-130	20	4	
Trichloroethene	53	51	50	106	102	70-130	20	4	
Toluene	44	42	50	88	84	70-130	20	4	
Chlorobenzene	47	44	50	94	88	70-130	20	6	
m,p-Xylenes	88	82	100	88	82	70-130	20	6	

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

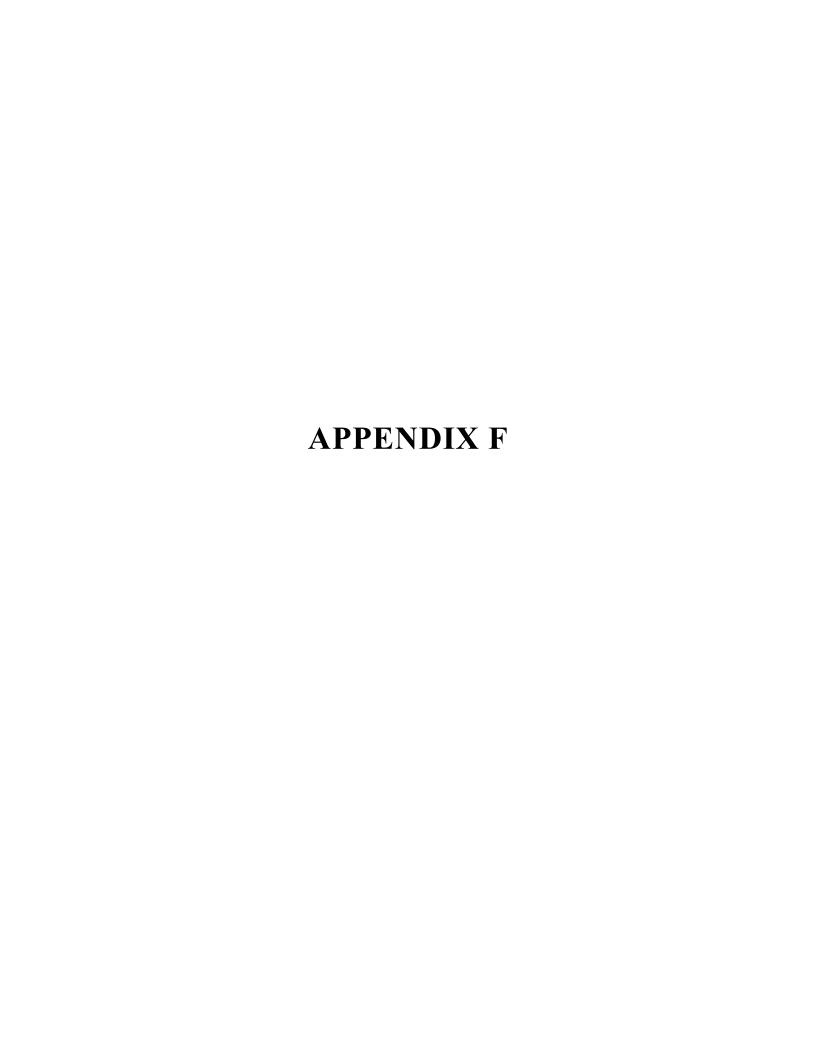
RPD: Relative Percent Difference of LCS and LCSD

Perimeters	Method	Units	Det.
	Blank		Limit
1,1-Dichloroethene	ND	ug/L	1
Benzene	ND	ug/L	0.5
Trichloroethene	ND	ug/L	0.5
Toluene	ND	ug/L	0.5
Chlorobenzene	ND	ug/L	0.5
m,p-Xylenes	ND	ug/L	0.6
MTBE	ND	ug/L	1
TBA	ND	ug/L	10
DIPE	ND	ug/L	1
ETBE	ND	ug/L	1
TAME	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	0.5
EDB	ND	ug/L	0.5
Ethylbenzene	ND	ug/L	0.5
o-Xylene	ND	ug/L	0.6
TCE	ND	ug/L	1
PCE	ND	ug/L	1

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GeoEnvironmental, Inc. Advanced

C | - | 44 CHAIN OF CUSTODY RECORD



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Submittal Title: MBP Linden 1st Quarter

2005

Submittal Date/Time: 5/19/2005 4:47:46 PM

Confirmation

Number:

9373844742

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Confirmation Number: 4944995164

Date/Time of Submittal: 4/21/2005 11:53:04 PM

Facility Global ID: T0607700895 **Facility Name: MBP LINDEN**

Submittal Title: 03-23-2005 Remediation Vapor **Submittal Type:** Remediation O & M Reports

Click here to view the detections report for this upload.

MBP LINDEN Regional Board - Case #: 391080

8203 HWY 26 E CENTRAL VALLEY RWQCB (REGION 5S) - (JLB) STOCKTON, CA 95206

Local Agency (lead agency) - Case #: 000691 SAN JOAQUIN COUNTY LOP - (ML)

CONF# **QUARTER** 4944995164 03-23-2005 Remediation Vapor Q1 2005

SUBMITTED BY SUBMIT DATE **STATUS**

Christopher Miller 4/21/2005 PENDING REVIEW

SAMPLE DETECTIONS REPORT

FIELD POINTS SAMPLED # FIELD POINTS WITH DETECTIONS 0 # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL

SAMPLE MATRIX TYPES AIR - UNK. ORIGIN

METHOD QA/QC REPORT

METHODS USED 8260FAB,M8015 **TESTED FOR REQUIRED ANALYTES?**

MISSING PARAMETERS NOT TESTED:

- 8260FAB REQUIRES ETBE TO BE TESTED
- 8260FAB REQUIRES TAME TO BE TESTED
- 8260FAB REQUIRES DIPE TO BE TESTED
- 8260FAB REQUIRES TBA TO BE TESTED
- 8260FAB REQUIRES DCA12 TO BE TESTED
- 8260FAB REQUIRES EDB TO BE TESTED
- 8260FAB REQUIRES ETHANOL TO BE TESTED

LAB NOTE DATA QUALIFIERS

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS 0 METHOD HOLDING TIME VIOLATIONS 0 LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT 0 LAB BLANK DETECTIONS 0 DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING? - LAB METHOD BLANK

- MATRIX SPIKE N - MATRIX SPIKE DUPLICATE N - BLANK SPIKE N

- SURROGATE SPIKE - NON-STANDARD SURROGATE USED

N

	OR 8021/8260 SERIES		
MATRIX SPIKE / MATRIX S	PIKE DUPLICATE(S) % RECOV	ERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX S	PIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
SURROGATE SPIKES % RE	COVERY BETWEEN 85-115%		n/a
BLANK SPIKE / BLANK SPI	KE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
0011 044451 50 505	0004/0000 055150		
SOIL SAMPLES FOR			
	PIKE DUPLICATE(S) % RECOV		n/a
	PIKE DUPLICATE(S) RPD LESS	5 THAN 30%	n/a
SURROGATE SPIKES % RE	COVERY BETWEEN 70-125%		n/a
BLANK SPIKE / BLANK SPI	KE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
	COLLECTED	<u>DETECTIONS ></u>	REPDL
SAMPLE	COLLECTED	•	
·	N N	0	
		0	

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Confirmation Number: 1886310756

Date/Time of Submittal: 5/19/2005 4:53:22 PM

Facility Global ID: T0607700895 **Facility Name: MBP LINDEN**

Submittal Title: Soil Vapor Samples March 2005 **Submittal Type:** Remediation O & M Reports

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MBP LINDEN Regional Board - Case #: 391080

8203 HWY 26 E CENTRAL VALLEY RWQCB (REGION 5S) - (JLB) STOCKTON, CA 95206

Local Agency (lead agency) - Case #: 000691 SAN JOAQUIN COUNTY LOP - (ML)

QUARTER CONF# 1886310756 Soil Vapor Samples March 2005 Q1 2005

SUBMITTED BY SUBMIT DATE **STATUS**

Christopher Miller 5/19/2005 PENDING REVIEW

SAMPLE DETECTIONS REPORT

FIELD POINTS SAMPLED 2 # FIELD POINTS WITH DETECTIONS # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL

SAMPLE MATRIX TYPES AIR - UNK. ORIGIN

METHOD QA/QC REPORT

METHODS USED 8260FAB,M8015 TESTED FOR REQUIRED ANALYTES?

MISSING PARAMETERS NOT TESTED:

- 8260FAB REQUIRES ETBE TO BE TESTED
- 8260FAB REQUIRES TAME TO BE TESTED
- 8260FAB REQUIRES DIPE TO BE TESTED
- 8260FAB REQUIRES TBA TO BE TESTED
- 8260FAB REQUIRES DCA12 TO BE TESTED
- 8260FAB REQUIRES EDB TO BE TESTED
- 8260FAB REQUIRES ETHANOL TO BE TESTED

LAB NOTE DATA QUALIFIERS

N

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS 0 METHOD HOLDING TIME VIOLATIONS 0 LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT 0 LAB BLANK DETECTIONS 0 DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING? Υ

- LAB METHOD BLANK

- MATRIX SPIKE N - MATRIX SPIKE DUPLICATE Ν Ν - BLANK SPIKE

SURROGATE SPIKE - NON-STANDARD SURROGATE USED

WATER SAMPLES FO	PIKE DUPLICATE(S) % RECOV	FDV RFTWFFN 65-135%	n/a
	PIKE DUPLICATE(S) % RECOV		n/a
	COVERY BETWEEN 85-115%	111/11 30/0	n/a
	KE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
SOIL SAMPLES FOR	8021/8260 SERIES		
MATRIX SPIKE / MATRIX S	PIKE DUPLICATE(S) % RECOV	ERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX S	PIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
SURROGATE SPIKES % RE	COVERY BETWEEN 70-125%		n/a
BLANK SPIKE / BLANK SPI	KE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
FIELD QC SAMPLES			
<u>SAMPLE</u>	COLLECTED	<u>DETECTIONS ></u>	REPDL
QCTB SAMPLES	N	0	
QCEB SAMPLES	N	0	

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Confirmation Number: 3853462696

Date/Time of Submittal: 5/19/2005 4:51:47 PM

Facility Global ID: T0607700895 **Facility Name: MBP LINDEN**

Submittal Title: Soil Vapor Samples February 2005

Submittal Type: Remediation O & M Reports

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MBP LINDEN Regional Board - Case #: 391080

8203 HWY 26 E CENTRAL VALLEY RWQCB (REGION 5S) - (JLB) STOCKTON, CA 95206

Local Agency (lead agency) - Case #: 000691

SAN JOAQUIN COUNTY LOP - (ML)

QUARTER CONF# 3853462696 Soil Vapor Samples February 2005 Q1 2005

SUBMITTED BY SUBMIT DATE **STATUS**

PENDING REVIEW Christopher Miller 5/19/2005

SAMPLE DETECTIONS REPORT

FIELD POINTS SAMPLED 2 # FIELD POINTS WITH DETECTIONS # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL

AIR - UNK. ORIGIN SAMPLE MATRIX TYPES

METHOD QA/QC REPORT

METHODS USED M8015,SW8020F TESTED FOR REQUIRED ANALYTES?

MISSING PARAMETERS NOT TESTED:

- SW8020F REQUIRES ETBE TO BE TESTED
- SW8020F REQUIRES TAME TO BE TESTED
- SW8020F REQUIRES DIPE TO BE TESTED
- SW8020F REQUIRES TBA TO BE TESTED
- SW8020F REQUIRES DCA12 TO BE TESTED
- SW8020F REQUIRES EDB TO BE TESTED

LAB NOTE DATA QUALIFIERS

Ν

Ν

Ν

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS 0 METHOD HOLDING TIME VIOLATIONS 0 LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT O LAB BLANK DETECTIONS DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING? - LAB METHOD BLANK

- MATRIX SPIKE
- MATRIX SPIKE DUPLICATE - BLANK SPIKE
- SURROGATE SPIKE NON-STANDARD SURROGATE USED

MATRIX SPIKE / MATRIX S	PIKE DUPLICATE(S) % RECOVE	ERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX S	PIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
SURROGATE SPIKES % RE	COVERY BETWEEN 85-115%		n/a
BLANK SPIKE / BLANK SPI	KE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
SOIL SAMPLES FOR	8021/8260 SERIES		
MATRIX SPIKE / MATRIX S	PIKE DUPLICATE(S) % RECOVE	ERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX S	PIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
SURROGATE SPIKES % RE	COVERY BETWEEN 70-125%		n/a
BLANK SPIKE / BLANK SPI	KE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
FIELD QC SAMPLES		DETECTIONS >	REPDL
SAMPLES SAMPLES	COLLECTED		
	<u>COLLECTED</u> N	0	

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Confirmation Number: 9352118849

Date/Time of Submittal: 2/17/2005 9:12:02 AM

Facility Global ID: T0607700895 **Facility Name: MBP LINDEN**

Submittal Title: 01-21-2005 Remediation-Vapor **Submittal Type:** Remediation O & M Reports

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MBP LINDEN Regional Board - Case #: 391080

8203 HWY 26 E CENTRAL VALLEY RWQCB (REGION 5S) - (JLB) STOCKTON, CA 95206

Local Agency (lead agency) - Case #: 000691 SAN JOAQUIN COUNTY LOP - (ML)

CONF# **QUARTER** 9352118849 01-21-2005 Remediation-Vapor Q1 2005

SUBMITTED BY SUBMIT DATE **STATUS**

Christopher Miller 2/17/2005 PENDING REVIEW

SAMPLE DETECTIONS REPORT

FIELD POINTS SAMPLED 2 # FIELD POINTS WITH DETECTIONS 2 # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL

SAMPLE MATRIX TYPES AIR - UNK. ORIGIN

METHOD QA/QC REPORT

METHODS USED M8015,SW8020F TESTED FOR REQUIRED ANALYTES?

MISSING PARAMETERS NOT TESTED:

- SW8020F REQUIRES ETBE TO BE TESTED
- SW8020F REQUIRES TAME TO BE TESTED
- SW8020F REQUIRES DIPE TO BE TESTED
- SW8020F REQUIRES TBA TO BE TESTED
- SW8020F REQUIRES DCA12 TO BE TESTED
- SW8020F REQUIRES EDB TO BE TESTED

LAB NOTE DATA QUALIFIERS

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS 0 METHOD HOLDING TIME VIOLATIONS O LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT LAB BLANK DETECTIONS 0 DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING? - LAB METHOD BLANK - MATRIX SPIKE Ν

- MATRIX SPIKE DUPLICATE - BLANK SPIKE Ν

- SURROGATE SPIKE - NON-STANDARD SURROGATE USED

N

MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	5 n/a
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RE	ECOVERY BETWEEN 85-115%	n/a
BLANK SPIKE / BLANK SPI	KE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a
SOIL SAMPLES FOR	8021/8260 SERIES	
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RE	ECOVERY BETWEEN 70-125%	n/a
	KE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a
BLANK SPIKE / BLANK SPI	RE DUPLICATES % RECOVERY BETWEEN 70-130%	11/ a
	RE DUPLICATES % RECOVERY BETWEEN 70-130%	11/a
	COLLECTED DETECTIONS	
FIELD QC SAMPLES		
FIELD QC SAMPLES SAMPLE	COLLECTED DETECTIONS	

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Confirmation Number: 7011763274

Date/Time of Submittal: 4/21/2005 11:43:08 PM

Facility Global ID: T0604793737

Facility Name: MBP TRUCK & AUTO

Submittal Title: 03-17-2005 Remediation Vapor **Submittal Type:** Remediation O & M Reports

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MBP TRUCK & AUTO Regional Board - Case #: 5T24000523

15838 PAUL NEGRA RD CENTRAL VALLEY RWQCB (REGION 5F) - (WWG) FIREBAUGH, CA 93622

Local Agency (lead agency) - Case #: 24241

MERCED COUNTY LOP - (ELS)

CONF# **QUARTER** 7011763274 03-17-2005 Remediation Vapor Q1 2005

SUBMITTED BY SUBMIT DATE **STATUS**

Christopher Miller 4/21/2005 PENDING REVIEW

SAMPLE DETECTIONS REPORT

FIELD POINTS SAMPLED # FIELD POINTS WITH DETECTIONS

FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL SAMPLE MATRIX TYPES AIR - UNK. ORIGIN

METHOD QA/QC REPORT

METHODS USED 8260FAB,M8015

TESTED FOR REQUIRED ANALYTES?

MISSING PARAMETERS NOT TESTED:

- 8260FAB REQUIRES ETBE TO BE TESTED
- 8260FAB REQUIRES TAME TO BE TESTED
- 8260FAB REQUIRES DIPE TO BE TESTED
- 8260FAB REQUIRES TBA TO BE TESTED
- 8260FAB REQUIRES DCA12 TO BE TESTED
- 8260FAB REQUIRES EDB TO BE TESTED
- 8260FAB REQUIRES ETHANOL TO BE TESTED

LAB NOTE DATA QUALIFIERS N

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS 0 METHOD HOLDING TIME VIOLATIONS 0 LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT 0 LAB BLANK DETECTIONS 0 DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?

- LAB METHOD BLANK Υ - MATRIX SPIKE N - MATRIX SPIKE DUPLICATE N - BLANK SPIKE N

SURROGATE SPIKE - NON-STANDARD SURROGATE USED

	R 8021/8260 SERIES		
MATRIX SPIKE / MATRIX SI	PIKE DUPLICATE(S) % RECOVER	RY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SI	PIKE DUPLICATE(S) RPD LESS T	HAN 30%	n/a
SURROGATE SPIKES % RE	COVERY BETWEEN 85-115%		n/a
BLANK SPIKE / BLANK SPI	KE DUPLICATES % RECOVERY B	ETWEEN 70-130%	n/a
SOIL SAMPLES FOR 8	3021/8260 SERIES		
MATRIX SPIKE / MATRIX SI	PIKE DUPLICATE(S) % RECOVER	RY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SI	PIKE DUPLICATE(S) RPD LESS T	HAN 30%	n/a
SURROGATE SPIKES % RE	COVERY BETWEEN 70-125%		n/a
BLANK SPIKE / BLANK SPIR	KE DUPLICATES % RECOVERY B	ETWEEN 70-130%	n/a
FIELD QC SAMPLES		DETECTIONS >	REPDL
FIELD QC SAMPLES SAMPLE	<u>COLLECTED</u>		
	<u>COLLECTED</u> N	0	
		0	

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Confirmation Number: 9198020040

Date/Time of Submittal: 5/19/2005 4:49:37 PM

Facility Global ID: T0607700895 **Facility Name: MBP LINDEN Submittal Title:** First Quarter 2005 **Submittal Type:** GW Monitoring Report

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MBP LINDEN Regional Board - Case #: 391080

8203 HWY 26 E CENTRAL VALLEY RWQCB (REGION 5S) - (JLB) STOCKTON, CA 95206 Local Agency (lead agency) - Case #: 000691

SAN JOAQUIN COUNTY LOP - (ML)

CONF# **TITLE QUARTER** 9198020040 First Quarter 2005 Q1 2005

SUBMITTED BY SUBMIT DATE **STATUS**

Christopher Miller 5/19/2005 PENDING REVIEW

SAMPLE DETECTIONS REPORT

FIELD POINTS SAMPLED 3 # FIELD POINTS WITH DETECTIONS 0 # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL 0 SAMPLE MATRIX TYPES WATER

METHOD QA/QC REPORT

METHODS USED 8260FAB,M8015 TESTED FOR REQUIRED ANALYTES? MISSING PARAMETERS NOT TESTED:

- 8260FAB REQUIRES ETHANOL TO BE TESTED
- 8260FAB REQUIRES XYLENES TO BE TESTED

TECHNICAL HOLDING TIME VIOLATIONS

LAB NOTE DATA QUALIFIERS Ν

QA/QC FOR 8021/8260 SERIES SAMPLES

METHOD HOLDING TIME VIOLATIONS 0 LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT 0 LAB BLANK DETECTIONS 0 DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING? - LAB METHOD BLANK - MATRIX SPIKE - MATRIX SPIKE DUPLICATE - BLANK SPIKE - SURROGATE SPIKE - NON-STANDARD SURROGATE USED

0

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% n/a MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% n/a

SURROGATE SPIKES %	RECOVERY BETWEEN 85-115%		n/a
BLANK SPIKE / BLANK S	SPIKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
SOIL SAMPLES FO	R 8021/8260 SERIES		
MATRIX SPIKE / MATRI	X SPIKE DUPLICATE(S) % RECOVE	ERY BETWEEN 65-135%	n/a
MATRIX CRIVE / MATRI	X SPIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
WAIRIA SPINE / WAIRI	A 31 IKE DOI LIGHTE(3) KI D LL33	111/114 30 /0	
	RECOVERY BETWEEN 70-125%	111/114 30 /0	n/a
SURROGATE SPIKES %	• • •		n/a n/a
SURROGATE SPIKES % BLANK SPIKE / BLANK S	RECOVERY BETWEEN 70-125% SPIKE DUPLICATES % RECOVERY		
SURROGATE SPIKES % BLANK SPIKE / BLANK S	RECOVERY BETWEEN 70-125% SPIKE DUPLICATES % RECOVERY		n/a
SURROGATE SPIKES % BLANK SPIKE / BLANK S FIELD QC SAMPLE	RECOVERY BETWEEN 70-125% SPIKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
SURROGATE SPIKES % BLANK SPIKE / BLANK S FIELD QC SAMPLE SAMPLE	RECOVERY BETWEEN 70-125% SPIKE DUPLICATES % RECOVERY COLLECTED	BETWEEN 70-130%	n/a

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